Lively District Secondary School

Grade 10-12
Student Course Calendar

2026 – 2027

Course Descriptions Grade 10-12

The courses offered by this school have been developed according to the requirements of The Ontario Ministry of Education.

Students and parents should take into consideration prerequisites and postsecondary plans before making course selections.

A **credit** is granted in recognition of the successful completion of a course that has been scheduled for a minimum of 110 hours. Each of the courses offered is worth one credit unless indicated.

Students in Grades 10 and 11 **must** select **8** courses.

Students in Grade 12 **must** select a minimum of **6** courses.

Academic Planning:
LDSS is pleased to provide an exciting education planning resource available to our students at school or from home. myBlueprint Education Planner (**www.myBlueprint.ca/rainbow**) lets students create an engaging and interactive Education Plan. Students can build customized high school course plans; instantly identify the post-secondary options that are available to them; and explore valuable information about apprenticeships, college programs, university programs and workplace opportunities across Canada! Students can also work through an interest survey, all free of charge. Students will engage in activities using this program from grade 7-12.

With direct access from home, parents can also be more informed and involved with their child's education. Log in and learn about courses, graduation requirements and the endless options available to students. From their profile, students will be able to set goals, save unlimited plans, short-list programs and occupations of interest, record extra-curricular activities and more.

University Websites:

www.ontariouniversitiesinfo.ca - Research University options

www.ouac.on.ca - Apply and confirm the university of your choice

College Websites:

www.ontariocolleges.ca - Research, apply and confirm your college of choice

Apprenticeship Websites:

www.skillsontario.com - Skills Canada – Ontario
www.oyap.com - Ontario Youth Apprenticeship Program
http://skillswork.com - Ontario Skills Work
http://careersintrades.ca - Careers in Trades
www.skilledtrades.ca – Human Resources Development Canada – Skilled Trade

Innovative Integrated Technology Program (InIT)

The Innovative Integrated Technology (InIT) program provides students with specialized programming that combines a variety of core subjects with our high caliber technology classes. LDSS works in partnership with businesses and industry to provide relevant and meaningful activities to students through job shadowing, field trips and certifications that will prepare students to be competitive in a global market.

Integrated Technology Projects could also include collaborative Innovation among courses:
Architectural Design - Technological Design, Art and Construction
Historical Tool Re-creation - History, English, Construction and Media
Robotics - integrates all areas of technology
Metal Working Sculptures - Art, Technology Design, Manufacturing

College bound students will be required to obtain six technology credits throughout their four years of secondary school. In order to obtain an InIT certificate upon graduation, students will need to maintain a minimum 70% average across their top six tech courses.

University bound students will be required to obtain four technology courses throughout their four years of secondary school. In order to obtain an InIT certificate upon graduation, students will need to maintain a minimum 70% average across their top four tech courses.

The following criteria are suggested prerequisites for this program:

- good work habits
- excellent attendance record
- interest in applied technology

Transportation to Lively District Secondary School is provided to students who register in the InIT program.

Further information and an application package are available upon request.

Media Arts

Media Arts, Grade 10. Open **(ASM2O0)**
This course enables students to create media art works by exploring new media, emerging technologies such as digital animation, and a variety of traditional art forms such as film, photography, video, and visual arts. Students will acquire communications skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret media art works.
Prerequisite: None

Media Arts, Grade 11, Open **(ASM3O0)**
This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, and video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.
Prerequisite: None

Media Arts, Grade 11, University/College **(ASM3M0)**
This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies, tools, and techniques such as new media, computer animation, and web environments. Students will explore the evolution of media arts as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyse the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity, culture, and values.
Prerequisite: Media Arts, Grade 10, open (Communications Technology, open grade 10 also accepted)

Media Arts, Grade 12, University/College **(ASM4M0)**
This course emphasizes the refinement of media art skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multi-media, computer animation, installation art, and performance art. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyse the role of media artists in shaping audience perceptions of identity, culture and community values.
Prerequisite: Media Arts, Grade 11, University/College Preparation

Music

Music, Instrumental, Grade 10, Open, Grade 11, University/College **(AMI2O0/AMI3M0/AMI4M0)**
This course emphasizes the creation and performance of music at a level consistent with previous experience. Learning will take place on a band instrument (i.e., clarinet, trumpet, etc.). Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures.
Prerequisite: None

Visual Arts

Visual Arts, Grade 10, Open **(AVI2O0)**
This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.
Prerequisite: None

Visual Arts, Grade 11, Open **(AVI3O0)**
This course focuses on studio activities in the visual arts, such as drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.
Prerequisite: None

Visual Arts, Grade 11, University/College **(AVI3M0)**
This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular artform (e.g. photography, video, computer graphics, information design).
Prerequisite: Visual Arts, Grade 9 or 10, Open

Visual Arts, Grade 12, University/ College **(AVI4M0)**
This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.
Prerequisite: Visual Arts, Grade 11, University/College Preparation

Business Studies

Launching and Leading a Business, Grade 10, Open **(BEP2O0)**
This course introduces students to the world of business and what is required to be successful, ethical, and responsible in today's economy. Students will develop the knowledge and skills needed to be an entrepreneur who knows how to respond to local and global market opportunities. Throughout this course, students will explore and understand the responsibility of managing different functions of a business. This includes accounting, marketing, information and communication technology, financial management, human resources, and production.
Prerequisite: None

Business Management Fundamentals, Grade 12, University/College **(BOH4M0)**
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 are also emphasized. ***This course will run every second year.***
Prerequisite: None

International Business Fundamentals, Grade 12, University/ College (BBB4M0)
This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management. **This course will run every second year.*
Prerequisite: None

Computer Studies

Digital Technology and Innovations in the Changing World, Grade 10, Open (ICD2OT)
This course helps students develop cutting-edge digital technology and computer programming skills that will support them in contributing to and leading the global economic, scientific and societal innovations of tomorrow. Students will learn and apply coding concepts and skills to build hands-on projects and investigate artificial intelligence, cybersecurity, and other emerging digital technologies that connect to a wide range of fields and careers. Using critical thinking skills with a focus on digital citizenship, students will investigate the appropriate use and development of the digital technologies that they encounter every day, as well as the benefits and limitations of these technologies.
Prerequisite: None

Introduction to Computer Programming, Grade 11, College (ICS3CT)
This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields.
Prerequisite: None

Introduction to Computer Science, Grade 11, University (ICS3UT)
This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.
Prerequisite: None

Computer Programming, Grade 12, College (ICS4CT)
This course further develops students' computer programming skills. Students will learn object-oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing and expand their understanding of environmental issues, emerging technologies, and computer-related careers.
Prerequisite: Introduction to Computer Programming, Grade 11, College Preparation

Computer Science, Grade 12, University (ICS4UT)
This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
Prerequisite: Introduction to Computer Science, Grade 11, University Preparation

Canadian and World Studies

Civics, Grade 10, Open **(CHV2O0)**

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. Opportunities will be provided for students to apply their learning in practical activities as well as volunteer activities that promote citizenship.

Prerequisite: None

This is a 0.5 credit course that must be taken with (GLC2O0) Career Studies. **Both courses are compulsory**.

Canadian History since World War I, Grade 10, Academic **(CHC2D0)**

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

Prerequisite: None

Canadian History Since World War I, Grade 10, Applied **(CHC2P0)**

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

Prerequisite: None

Understanding Canadian Law, Grade 11, University/College **(CLU3M0)**

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws.

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

Canadian and International Law, Grade 12, University **(CLN4U0)**

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

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

English

English, Grade 10, Academic **(ENG2D0)**

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

Prerequisite: English, Grade 9, De-streamed

English, Grade 10, Applied **(ENG2P0)**

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

Prerequisite: English, Grade 9, De-streamed

English, Grade 10, Locally Developed **(ENG2L0)**

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, or in the English Grade 11 Workplace Preparation course. The course extends 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. In addition, emphasis will be supporting and preparing students for the Ontario Secondary School Literacy Test (OSSLT).

Prerequisite: Grade 9 English credit

English, Grade 11, University **(ENG3U0)**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms.

Prerequisite: English, Grade 10, Academic

English, Grade 11, College **(ENG3C0)**

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 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.

Prerequisite: English, Grade 10, Applied

English, Grade 11, Workplace **(ENG3E0)**

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

Prerequisite: English, Grade 10, Applied or Locally Developed

English, Grade 12, University **(ENG4U0)**

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.
Prerequisite: English, Grade 11, University Preparation

English, Grade 12, College **(ENG4C0)**

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.
Prerequisite: English, Grade 11, College Preparation

English, Grade 12, Workplace **(ENG4E0)**

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, résumés, and short essays; complete an independent research project; and explain the connections among media forms, audiences, and media industry practices. An important focus will be on using specialized language related to the workplace accurately and coherently in appropriate contexts.
Prerequisite: English, Grade 11, Workplace Preparation

Ontario Secondary School Literacy Course, Grade 12, Open **(OLC4O0)**

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 twice, and have been unsuccessful at least once, are eligible to take this course to achieve both a Grade 12 elective credit, and their literacy credential for graduation.

French

French Immersion, Grade 10, Academic **(FIF2D0)**

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language-learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary and historically well-known French European literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: French Immersion, Grade 9

French Immersion, Grade 11, University **(FIF3U0)**
This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will apply language-learning strategies while exploring a variety of concrete and abstract topics, and will increase their knowledge of the language through the study of French literature from around the world. They will also continue to deepen their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: French Immersion, Grade 10

French Immersion, Grade 12, University **(FIF4U0)**
This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate language-learning strategies and apply them while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.
Prerequisite: French Immersion, Grade 11

Guidance and Career Education

Learning Strategies

Learning Strategies: Skills, for Success in Secondary School, Grade 10, Open **(GLE2O0)**
This course explores various learning strategies and helps students become better, more independent learners while further increasing their personal management skills both in school and in other contexts. Students will incorporate what they have learned about themselves and further apply strategies to improve their learning, particularly their literacy, numeracy, communication and organizational skills. Students will focus on various assistive technology programs and cover topics that include problem solving, time management, conflict management and preparing for the Ontario Secondary School Literacy Test.
Prerequisite: Learning Strategies, Grade 9 Open, and recommendation of the Principal

Learning Strategies: Skills for Success in Secondary School, Grade 11, Open **(GLE3O0)**
This course continues to focus on strategies and skills in order to improve personal management and learning.
Prerequisite: Learning Strategies, Grade 10, Open, and recommendation of the Principal.

Learning Strategies: Skills for Success in Secondary School, Grade 12, Open **(GLE4O0)**
This course provides opportunity for enhancement of skills gained in previous courses, and introduces the Personal Portfolio, as a means to reflect upon personal experiences and gain deeper understanding of oneself and others.
Prerequisite: Learning Strategies, Grade 11, Open, and recommendation of the Principal

Learning Strategies: Skills for Success in Secondary School, Grade 9/12, Open **(GLS1O0/GLS4O0)**
This course improves students' learning skills, preparing them to make successful transitions to work and post- secondary education and become independent, lifelong learners. Students will learn how to assess their learning abilities and use critical reading, time management and other techniques for promoting effective learning. In addition, they will investigate learning requirements for employment and postsecondary education or training and develop plans for learning after secondary school.
Prerequisite: recommendation of the Principal

Career Studies

Career Studies, Grade 10, Open (GLC2O0)
This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores post-secondary learning options, prepares students for community-based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals. **This is a 0.5 credit course that must be taken with (CHV2O0) Civics.**
Prerequisite: None

Cooperative Education

Cooperative education provides the reality and relevancy to education by developing the "whole person" through the combination of classroom learning with practical experience. Cooperative education is available to students applying for university or college, as well as students entering the workplace directly. As described on page 15, the cooperative education course consists of a classroom component and a placement component. Cooperative education courses may be planned as half-day or full-day courses. Upon completion of this course, students receive 2, 3, or 4 credits.
Prerequisite: The student must be 16 years of age and have a minimum of 20 credits and have completed or currently completing a related senior course.

Ontario Youth Apprenticeship program (OYAP)

OYAP provides full-time grade 11 and 12 students with the opportunity to participate in a co-operative education work experience placement in a skilled trade while working towards the completion of an Ontario Secondary School Diploma.

Summer Cooperative Education

Opportunities are being offered to grade 11/12 students to earn 1, 2, or 3 credits toward their OSSD. This planned learning experience integrates classroom theory and learning experiences at a workplace to enable students to apply and refine the knowledge and skills acquired in a related curriculum course or a locally developed course.

Health and Physical Education

Healthy Active Living Education, Grade 10, Open (PPL2O0)
This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.
Prerequisite: None

Healthy Active Living and Large-Group Activities (Football), Grades 10-12, Open (PAL2O/3O/4O)
Open courses are designed to broaden students' knowledge and skills in subjects that reflect their interests and prepare them for active and rewarding participation in society. They are not designed with specific requirements of universities, colleges, or the workplace in mind. Students choose open courses on the basis of their interests, achievement, and post-secondary goals.
Prerequisite: None

Healthy Active Living Education, Grade 11, Open **(PPL3O0)**

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills, and will be given opportunities to practice goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

Prerequisite: None

Outdoor Education, Grade 11, Open **(PAD3O0)**

This course is a unique opportunity to develop a personalized approach to healthy active living through ***participation*** in classroom workshops combined with strenuous outdoor experiences through wilderness activities, field trips and explorations. Students will participate in daily course activities including: first aid, CPR, Nordic skiing, snowshoeing, quinsy building, winter camping, wilderness survival, ecology, hiking, orienteering, backpacking, swimming, canoeing, weather interpretation, teamwork, and leadership games. A good attitude, desire to increase fitness level, and regular ***participation*** are a must for success. Students will be expected to engage in outdoor activities 4 out of 5 days of the week, in all climatic conditions.

Students are expected to explore and demonstrate appropriate knowledge, skills, and attitudes within 3 interconnected themes:

•***Outdoor Skills:*** necessary for safe comfortable outdoor experiences in all seasons

•***Personal Development:*** team-building and leadership skills which stress understanding, respect, and appreciation for self and others

•***Environmental Understanding:*** awareness and respect of all living things and an understanding of basic ecological processes and sustainability

Prerequisite: None

Fitness and Leadership, Grade 11, Open **(PAF3O0)**

This course emphasizes regular participation in weight training, Group Fitness and training methodology that promote lifelong personal fitness. Students will learn lifting techniques and training principles, ways to improve personal fitness and physical competence, safety and injury prevention and developing healthy eating patterns related to various demographics and individual requirements.

Prerequisite: None

Healthy Active Living Education, Grade 12, Open **(PPL4O0)**

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision-making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

Prerequisite: None

Outdoor Education, Grade 12, Open **(PAD4O0)**

Students will continue to explore and demonstrate appropriate knowledge, skills, and attitudes within the interconnected themes: outdoor skills, personal development, and environmental understanding.

Prerequisite: Outdoor Education, grade 11

Fitness and Leadership, Grade 12, Open **(PAF4O0)**

This course is designed to aid students further enhance their understanding of training principles and methodologies. Students will develop a wider range of training types and skills, as well as a deeper understanding of the uses of equipment at their disposal to aid their own training and that of others. In this course, students will take on numerous positions in order to develop their skills as a fitness leader in individual and group settings.

Prerequisite: Fitness and Leadership, Grade 11

Yoga, Grade 11/12, Open **(PAI3/4O)**

This course is designed for healthy active students who are interested in becoming empowered. This class will be a judgment free zone where each student is respected, nurtured and challenged. While practicing a variety of postures, students will develop a positive body image, increase their strength/flexibility and balance while reducing stress in their everyday lives. This course will also focus on breathing and relaxation techniques. This is an ideal class for those who want to support existing athletic activities or simply gain more self-confidence and mental fitness. Journal writing, reading and group discussions will create a positive and relaxing environment. For this course every student is encouraged to have a mat, a water bottle and a journal.

Prerequisite: None

Introductory Kinesiology, Grade 12, University **(PSK4U0)**

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

Prerequisite: Any Grade 11 university or university/college preparation course in science, or any Grade 11 or 12 course in health and physical education. **This course will run every second year.*

Mathematics

Principles of Mathematics, Grade 10, Academic **(MPM2D0/MPM2DT/MPM2DE)**

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 multi-step problems and communicate their thinking. The culminating activity will require students to integrate mathematical principles with scientific and technological concepts. **This course leads to MCR3U0.**

Prerequisite: Mathematics, Grade 9, De-streamed

Foundations of Mathematics, Grade 10, Applied **(MFM2P0/MFM2PT)**

This course enables students to consolidate their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relationships. Students will investigate similar triangles, the trigonometry of right-angled triangles, and the measurement of three-dimensional objects. Students will consolidate their mathematical skills as
Will solve problems and communicate their thinking. The culminating activity will require students to integrate mathematical principles with scientific and technological concepts. **This course leads to MBF3C0.**

Prerequisite: Mathematics, Grade 9, De-streamed

Mathematics, Grade 10, Locally Developed (MAT2L0)
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. The course is organized into 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 in hands on activities. Students have opportunities to extend their mathematical literacy and problem-solving skills, and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.
Prerequisite: Mathematics, Grade 9, De-streamed or Locally Developed

Functions, Grade 11, University (MCR3U0/MCR3UT/MCR3UE)
This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. **This course leads to MHF4U0, MDM4U0, MCT4C0.**
Prerequisite: Principles of Mathematics, Grade 10, Academic

Mathematics of Personal Finance, Grade 11, College (MBF3C0/MBF3CT)
This course enables students to broaden their understanding of exponential growth and of important areas of personal finance. Students will investigate properties of exponential functions and develop skills in manipulating exponential expressions; solve problems and investigate financial applications involving compound interest and annuities; and apply mathematics in making informed decisions about transportation, accommodation, and career choices.
This course leads to MAP4C0.
Prerequisite: Foundations of Mathematics, Grade 10, Applied

Mathematics for Work and Everyday Life, Grade 11, Workplace (MEL3E0)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **This course leads to MEL4E0**.
Prerequisite: Mathematics, Grade 9, De-streamed, Grade 10, Applied, or
Locally Developed Mathematics, Grade 10

Advanced Functions, Grade 12, University (MHF4U0)
This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.
Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation

Calculus and Vectors, Grade 12, University (MCV4U0/MCV4UE)
This course builds on the students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

Prerequisite: Advanced Functions, Grade 12 University Preparation

College and Apprenticeship Mathematics, Grade 12, College (MAP4C0)
This course equips students with the mathematical knowledge and skills they will need in many college programs. Students will use statistical methods to analyze problems; solve problems involving the application of principles of geometry and measurement to the design and construction of physical models; solve problems involving trigonometry in triangles; and consolidate their skills in analyzing and interpreting mathematical models.
Prerequisite: Mathematics of Personal Finance, Grade 11, College Preparation (MBF3C0)

Mathematics for Everyday Life, Grade 12, Workplace (MEL4E0)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

Science

Science, Grade 10, Academic, University/College (SNC2D0/SNC2DT/SNC2DE)
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.
Prerequisite: Science, Grade 9, De-streamed

Science, Grade 10, Applied (College) (SNC2P0/SNC2PT)
This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.
Prerequisite: Science, Grade 9, De-streamed

Science, Grade 10, Locally Developed **(SNC2L0)**

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace and in the Science Grade 11 Workplace Preparation course. Students explore a range of topics including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy. 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.

Prerequisite: Science, Grade 9 De-streamed or Locally Developed

Biology

Biology, Grade 11, University **(SBI3U0/SBI3UE)**

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Prerequisite: Science, Grade 10, Academic (SNC2D0)

Biology, Grade 11, College **(SBI3C0)**

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: Science, Grade 10, Academic or Applied (SNC2D0 or SNC2P0) **This course will run every second year.*

Biology, Grade 12, University **(SBI4U0/SBI4UE)**

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

Prerequisite: Biology, Grade 11, University Preparation (SBI3U0)

Chemistry

Chemistry, Grade 11, University **(SCH3U0/SCH3UT)**

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.

Prerequisite: Science, Grade 10, Academic (SNC2D0)

Chemistry, Grade 12, University **(SCH4U0)**

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

Prerequisite: Chemistry, Grade 11, University Preparation (SCH3U0)

Chemistry, Grade 12, College **(SCH4C0)**
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. This course will
Prerequisite: Science, Grade 10 Academic or Applied (SNC2D0 or SNC2P0) *This course will be offered every second year.*

Physics

Physics, Grade 11, University **(SPH3U0)**
This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.
Prerequisite: Science, Grade 10, Academic (SNC2DT)

Physics, Grade 12, University **(SPH4U0)**
This course develops students' understanding of physics concepts and theories. Students will continue their exploration of energy transformation and the forces that affect motion. Will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. They will further develop their scientific investigation; learning how to analyze, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.
Prerequisite: Physics, Grade 11, University Preparation (SPH3U0)

Physics, Grade 12, College **(SPH4C0)**
This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.
Prerequisite: Science, Grade 10, Academic or Applied (SNC2DT or SNC2P0)

Social Sciences and Humanities

Food and Nutrition, Grade 10, Open **(HFN2O0)**
This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.
Prerequisite: None

Parenting, Grade 11, Open **(HPC3O0)**
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.
Prerequisite: None

Technological Education

Construction Technology, Grade 10, Open **(TCJ2OT)**
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.

Construction Engineering Technology, Grade 11, College **(TCJ3CT)**
This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.
Prerequisite: None

Construction Engineering Technology, Grade 12, College **(TCJ4CT)**
This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and explore career opportunities in the field.
Prerequisite: Construction Engineering Technology, Grade 11, College Preparation

Technological Design, Grade 10, Open **(TDJ2OT)**
This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary education and training leading to careers in that field.
Prerequisite: None

Technological Design, Grade 11, University/College **(TDJ3MT)**
This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.
Prerequisite: None

Technological Design and the Environment, Grade 11, Open (TDJ3OT)
This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field.
Prerequisite: None

Technological Design, Grade 12, University/College (TDJ4MT)
This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and will explore career opportunities and the postsecondary education and training requirements for them.
Prerequisite: Technological Design, Grade 11, University/College Preparation

Technological Design in the Twenty-first Century, Grade 12, Open (TDJ4OT)
This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design.
Prerequisite: None

Manufacturing Technology, Grade 10, Open (TMJ2OT)
This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection molding. 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.

Manufacturing Engineering Technology, Grade 11, University/College (TMJ3MT)
Students will develop knowledge and skills in mechanical design (CAD) and modern manufacturing as they work in teams to build simple and complex robotic devices. Students will explore the use of robotics in business and industry and examine how robotic devices are affecting our lives and shaping our future. Examples of topics explored are mechanical mechanisms, control systems, programming, electronics, wiring, and fabrication techniques.
Prerequisite: None

Manufacturing Engineering Technology, Grade 11, College (TMJ3CT)
This course enables students to develop knowledge and skills through hands-on, project-based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.
Prerequisite: None

Manufacturing Engineering Technology, Grade 12, University/College (TMJ4MT)
This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyze and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.
Prerequisite: Manufacturing Engineering Technology, Grade 11, University/College Preparation

Manufacturing Technology, Grade 12, College (TMJ4CT)
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.
Prerequisite: Manufacturing Technology, Grade 11, College Preparation

Transportation Technology, Grade 10, Open (TTJ2OT)
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.

Transportation Technology, Grade 11, College (TTJ3CT)
This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.
Prerequisite: None

Transportation Technology, Grade 12, College (TTJ4CT)
This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.
Prerequisite: Transportation Technology, Grade 11, College Preparation

Communications Technology, Grade 10, Open (TGJ2OT)
This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.
Prerequisite: None

Communications Technology, Grade 11, University/College (TGJ3MT)
This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields.
Prerequisite: None, Communications Technology, Grade 10, Open is recommended

Communications Technology, Grade 12, University/College (TGJ4MT)
This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment.
Prerequisite: Communications Technology, Grade 11, University/College Preparation

SHSM

Introduction to Red Seal Trades (Instrumentation), Grade 11, College (TMI3CT)
This course enables students to develop knowledge and skills related to the mining industry. Students will be introduced to a variety of different trades including electrical, plumbing and heating and cooling. Students will also learn about safe and healthy working practices, study industry standards and complete hands-on assignments.
Prerequisite: None

Green Industries
Horticulture Management and Science, Grade 11, University/College (THS3MT)
This course enables students to develop knowledge and skills related to horticulture, and landscaping. Students will study the identification, growth and management of plants and animals and develop process, design and management skills required in the green industries. Students will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and complete hands-on assignments.
Prerequisite: None

Horticulture Management and Science, Grade 12, University/College (THS4MT)
This course enables students to develop knowledge and skills related to horticulture, and landscaping. Students will study the identification, growth and management of plants and animals and develop process, design and management skills required in the green industries. Students will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and complete hands-on assignments.
Prerequisite: Green Industries, Grade 11, University/College Preparation