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## INTRODUCTION

Ingersoll District Collegiate Institute is committed to being a caring school that seeks to provide students with the knowledge and skills they will need in preparation for their post-secondary destination – apprenticeship, college, community employment, or university. Students will have the opportunity to develop knowledge and skills in academics, athletics, technology, and through the many clubs and school activities, in a safe and caring learning environment. The knowledge and skills that students will acquire at Ingersoll District Collegiate Institute will allow them to become productive participants in our society.

## CHOOSING COURSES

Courses in the course calendar are dependent on sufficient enrolment and staffing. The responsibility for selecting the correct courses rests with the student and their parents/guardians, in consultation with our guidance counsellors and teachers. Courses selected at registration time need to be verified in April in the Student Portal. It is the students' responsibility to ensure the accuracy of their selections.

The master schedule for the school is created from the courses the students select in February. Consequently, once the schedule is set, course changes will be very difficult to accommodate. Course changes are discouraged once students have selected their courses. If a change of course is necessary due to unusual circumstances, this should occur within the first week of the new semester. Changes will only be considered in consultation with the guidance counsellor and/or administration. Students are expected to continue in attendance in all timetabled courses until the consultation interviews and approvals are obtained. It is very important to choose courses carefully.

Students must know the graduation diploma requirements. Students should review credit counselling summaries to determine what credits they have and what they still need. This information can be found on the Student Portal; look under "View My Course Credits/Community Service Hours".

Students should select a level that will be challenging for them, and provide a realistic chance of success. Current subject teachers should be consulted concerning choice of level as they are familiar with the students' ability and work habits. Factors influencing this choice include current academic achievement, motivation to excel, time management skills and educational/career plans. The Secondary Education Planning Sheet is on page 4.

Students in Grade 9, 10 and 11 must choose eight (8) courses. Students must have completed a minimum of 24 credits prior to choosing to take a spare.

Students in Grade 12 must choose a minimum of six (6) courses. A full time student takes a minimum of three (3) courses each semester. The Principal's approval is required for any exceptions.

Students or parents/guardians who have any questions about the course selection process are welcome to contact the student's guidance counsellor.

## SCHOOL SUPPORT SERVICES

- **Guidance Services** – Counsellors are available to meet the needs of our students in the areas of course selection, university and college research and application, career planning, study skills advice, and personal counselling.
- **Learning Support Centre** – The Learning Support Teacher provides academic and social/emotional support to students who have an Individual Education Plan and others who may require additional learning support.
- **Student Success Teacher** – Supports individual students and school wide efforts to improve student learning.
- **School Social Worker/Attendance Counsellor** – Offers support to students through individual counselling for a variety of social/emotional issues, as well as community agency referrals and attendance counselling.
- **School Psychologist** – Our TVDSB psychologist supports students who are experiencing personal difficulties.
- **Public Health Nurse** – The Public Health Nurse is available for health promotion with student groups and individuals.

## BUSINESS STUDIES CERTIFICATE

The **Business Studies Certificate** will be awarded upon graduation to students earning four (4) or more credits in Business Studies.

## INTERNATIONAL CERTIFICATE PROGRAM

The **International Certificate Program (ICP)** provides secondary school students the opportunity to become engaged global citizens, learn about the world, and prepare for the future. Students earn the certificate by studying an international language, participating in various international workshops, exploring global issues in classes that have an international focus, and by participating in international engagement either locally or abroad. Students will receive the TVDSB International Certificate Program certification upon successfully completing the required components and international portfolio. Contact Guidance for more information.

## TECHNOLOGICAL EDUCATION CERTIFICATE

The **Technological Education Certificate** will be awarded upon graduation to students earning eight (8) or more credits in Technological Education. IDCI has technology courses and facilities in the following areas:

- Communications Technology
- Construction
- Electrical
- Custom Woodworking
- Transportation - Automotive Service
- Technological Design
- Welding - Arc/Mig/Tig Welding, Sheet Metal Fabrication

## AWARDS, BURSARIES, SCHOLARSHIPS AND THE HONOUR ROLL

### Awards, Bursary and Scholarship Programs

- Ingersoll District Collegiate Institute celebrates student achievement and success!
- We are very fortunate to have many community partners who generously donate to recognize student achievement through our **Awards, Bursary and Scholarship** programs.
- Each of the awards is administered through Ingersoll District Collegiate Institute, The Thames Valley District School Board, the Thames Valley Education Foundation, or through private community organizations and donors.
- Students with the highest standing in grade 9, 10, and 11 courses will receive a certificate.
- Students with the highest mark in grade 12 courses will receive a recognition award donated by an individual, group, or business with the Ingersoll community.
- Students with the highest overall average in their grade will receive a Highest Standing Academic Award.

### Honour Roll

- Students achieving an 80 % + average overall in the school year will receive an Honour Roll certificate. The average is calculated based on the following:
  - Grade 9 and 10: All eight (8) courses
  - Grade 11: Best seven (7) courses
  - Grade 12: Best six (6) courses

On-line courses taken at Ingersoll District Collegiate Institute and through other providers may be used in the Honour Roll calculation.

**“What do you need to graduate”? Check the front pages of this booklet.**

- Using this worksheet, circle your choice for each compulsory credit for the appropriate grade.
- Select your optional courses based on career and personal interest.
- Remember to consider the required one (1) additional credit from Group 1, 2, and 3 when choosing elective credits.

	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>1</b>	<b>English</b> ENG 1D1 ENG 1P1 ENG 1L1	<b>English</b> ENG 2D1 ENG 2P1 ENG 2L1	<b>English</b> ENG 3U1 ENG 3C1 ENG 3E1	<b>English</b> ENG 4U1 ENG 4C1 ENG 4E1 OLC 4O1
<b>2</b>	<b>Math</b> MAT 1O1 MAT 1L1	<b>Math</b> MPM 2D1 MFM 2P1 MAT 2L1	<b>Math</b> MCR 3U1 MCF 3M1 MBF 3C1 MEL 3E1	
<b>3</b>	<b>Science</b> SNC 1D1 SNC 1P1 SNC 1L1	<b>Science</b> SNC 2D1 SNC 2P1 SNC 2L1		
<b>4</b>	<b>Geography</b> CGC 1D1 CGC 1P1 CGC 1PW	<b>History</b> CHC 2D1 CHC 2P1 CHC 2L1		
<b>5</b>	<b>French</b> FSF 1D1 FSF 1P1 FSF 141	<b>Civics</b> CHV 2O5 <b>Careers</b> GLC 2O5 (½ credit courses)		
<b>6</b>	<b>Health &amp; Phys. Ed.</b> PPL 1OF (Female) PPL 1OM (Male)			
<b>7</b>				
<b>8</b>				

## THE ARTS – DRAMA

**ADA 201 - Dramatic Arts, Grade 10 (Open)** - This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works. Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences.

**Prerequisite: None**

**ADA 301 - Dramatic Arts, Grade 11 (Open)** - This course requires students to engage in dramatic processes and the presentation of dramatic works, and emphasizes the application of drama skills in other contexts and opportunities. Students will interpret and present works in a variety of dramatic forms, create and script original works, and critically analyse the processes involved in producing dramatic works. Students will develop a variety of skills related to collaboration and the presentation of dramatic works.

**Prerequisite: None** ADA 201 recommended

**ADA 4E1 - Dramatic Arts, Grade 12 (Workplace)** - This course requires students to create and present a variety of dramatic works relevant to the workplace. Students will develop character through hands-on experience and project-based learning to build trust and collaborative skills and develop self-confidence. Students will also explore skills related to the study of drama that can be applied in the workplace.

**Prerequisite: ADA 301**

## THE ARTS – MUSIC

**AMI 101 - Brass & Woodwinds and Percussion, Grade 9 (Open)** - This course emphasizes the creation and performance of instrumental music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. 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 an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life. Students will play brass and woodwind instruments.

**Prerequisite: None**

**AMS 101 - Strings, Grade 9 (Open)** - This course emphasizes the creation and performance of stringed music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. 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 an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life. Students will play stringed instruments.

**Prerequisite: None**

**AMI 201 - Brass, Woodwinds and Percussion, Grade 10 (Open)** - This course emphasizes the creation and performance of instrumental music at a level consistent with previous experience. 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** AMI 101 recommended

**AMS 201 - Strings, Grade 10 (Open)** - This course emphasizes the creation and performance of stringed music at a level consistent with previous experience. 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** AMS 101 recommended

**AMG 201 - Guitar, Grade 10 (Open)** - This course emphasizes the creation and performance of guitar music at a level consistent with previous experience. 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. Guitars will be supplied for this course.

**Prerequisite: None**

**AMI 3M1 – Brass, Woodwinds and Percussion, Grade 11 (University/College)** - This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

**Prerequisite: AMI 1O1 or AMI 2O1**

**AMS 3M1 - Strings, Grade 11 (University/College)** - This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

**Prerequisite: AMS 1O1 or AMS 2O1**

**AMG 3O1 - Guitar, Grade 11 (Open)** - This course develops students' musical literacy through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers.

**Prerequisite: None**      AMG 2O1 recommended

**AMU 4EG - Guitar, Grade 12 (Workplace)** - This course provides students with the fundamental knowledge and skills needed to succeed in the music workplace. Students will, at a level consistent with previous experience, perform appropriate musical works. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, and market music presentations that reflect a broad spectrum of workplace contexts. In addition, students will explore ethical and safe practices related to music.

**Prerequisite: AMG 3O1**

**AMI 4M1 (Band) / AMS4M1 (Strings)** - Music, Grade 12 (University/College Preparation) – These courses emphasize the appreciation analysis and performance of music from the romantic period and the twentieth century including art music and Canadian and non-Western music. Students' will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.

**Prerequisite: AMI 3M1 or AMS 3M1**

## THE ARTS – VISUAL ART

**AVI 1O1 - Visual Arts, Grade 9 (Open)** - This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context.

**Prerequisite: None**

**AVI 201 - Visual Arts, Grade 10 (Open)** - This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

**Prerequisite: None**

**AVI 3M1 - Visual Arts, Grade 11 (University/College)** - 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 multimedia works, and/or works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others.

**Prerequisite: AVI 101 or AVI 201**

**AWM 3M1 - Visual Arts, Drawing and Painting, Grade 11 (University/College)** - 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 on drawing and painting and developing individual styles. Students will use the critical analysis process when evaluating their own work and the work of others. The artwork the student creates will add to their portfolio for post-secondary interviews.

**Prerequisite: AVI 101 or AVI 201**

**AVI 301 - Visual Arts, Grade 11 (Open)** - This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, printmaking, 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**

**AVI 4M1 - Visual Arts, Grade 12 (University/College)** - 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: AVI 3M1 or AWM 3M1**

**AVI 4E1 - Visual Arts, Grade 12 (Workplace)** - This course focuses on a practical approach to a variety of art and design projects related to the workplace. Students will use the creative process to produce a traditional and/or digital portfolio of their work in a variety of media. Students may focus on various aspects of visual arts, including printmaking, drawing, sculpture, advertising, ceramics, fashion design, graphic arts, jewellery design, and/or web design.

**Prerequisite: None** Previous art experience would be an asset.

## BUSINESS STUDIES

**BTT 101 - Information and Communication Technology in Business, Grade 9 (Open)** - This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology. This course is taught in a computer lab.

**Prerequisite: None**

**BBI 201 - Introduction to Business, Grade 10 (Open)** - This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives. This course is taught in a computer lab.

**Prerequisite: None**

**BAF 3M1 - Financial Accounting Fundamentals, Grade 11 (University/College)** - This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and current issues and ethics in accounting. This course is taught in a computer lab.

**Prerequisite: None**

**BMI 3C1 - Marketing: Goods, Services, Events, Grade 11 (College)** - This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

**Prerequisite: None**

**BOH 4M1 - Business Leadership: Management Fundamentals, Grade 12 (University/College)** - This course focuses on the development of leadership skills used in managing a successful business. Students will analyse 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. This course makes extensive use of the computer lab. This course is taught in a computer lab.

**Prerequisite: Any university, university/college, or college preparation course in business studies, English or Canadian and world studies.**

**BOG 4E1 - Business Leadership: Becoming a Manager, Grade 12 (Workplace)** - This course helps students prepare for managerial positions in their future careers. Students will focus on the development of core skills required to become a successful manager, including operations management, inventory control, marketing, financial planning, scheduling, and communication. Students will also explore the management challenges of hiring, training, motivating employees, and complying with legal requirements. This course is taught in a computer lab.

**Prerequisite: None**

## CANADIAN AND WORLD STUDIES – GEOGRAPHY

**CGC 1D1 - Issues in Canadian Geography, Grade 9 (Academic)** - This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place to live.

**Prerequisite: None**



**CGC 1P1 - Issues in Canadian Geography, Grade 9 (Applied)** - This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore issues relating to food and water supplies, competing land uses, interactions with the natural environment, and other topics relevant to sustainable living in Canada. They will also develop an awareness that issues that affect their lives in Canada are interconnected with issues in other parts of the world. Throughout the course, students will use the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations.

**Prerequisite: None**

**CGC 1PW – Geography of Canada, Grade 9 (Locally Developed)** - This course reviews and practices the essential geography mapping skills and explores Canada's distinct and diverse physical, human, and economic characteristics. Students will use a variety of learning strategies to enhance their potential for success. In class communication will concentrate on practical geographic questions and the students' ability to communicate their findings.

**Prerequisite: None**

**CGG 3O1 - Regional Geography: Travel and Tourism, Grade 11 (Open)** - This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

**Prerequisite: CGC 1D1, CGC 1P1 or CGC 1PW**

**CGW 4U1 - World Issues: A Geographic Analysis, Grade 12 (University)** - In this course, students will address the challenge of creating a more sustainable and equitable world. They will explore issues involving a wide range of topics, including economic disparities, threats to the environment, globalization, human rights, and quality of life, and will analyse government policies, international agreements, and individual responsibilities relating to them. Students will apply the concepts of geographic thinking and the geographic inquiry process, including the use of spatial technologies, to investigate these complex issues and their impacts on natural and human communities around the world.

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

**CGR 4M1 - The Environment and Resource Management, Grade 12 (University/College)** - This course investigates interactions between natural and human systems, with a particular emphasis on the impacts of human activity on ecosystems and natural processes. Students will use the geographic inquiry process, apply the concepts of geographic thinking, and employ a variety of spatial skills and technologies to analyse these impacts and propose ways of reducing them. In the course of their investigations, they will assess resource management and sustainability practices, as well as related government policies and international accords. They will also consider questions of individual responsibility and environmental stewardship as they explore ways of developing a more sustainable relationship with the environment.

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

**CGR 4E1 - Living in a Sustainable World, Grade 12 (Workplace)** - This course examines the impact of human activity on the natural environment. Students will explore the use of natural spaces and resources and the effects of planning decisions and consumer choices on natural systems. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate practical solutions to environmental issues, enabling them to make more sustainable decisions at home, in the workplace and in the local community.

**Prerequisite: CGC 1D1, CGC 1P1 or CGC 1PW**

**CHC 2D1 - Canadian History since World War I, Grade 10 (Academic)** - This course explores social, economic, and political developments and events and their impact on the lives of different groups in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada's evolving role within the global community, and the impact of various individuals, organizations, and events on Canadian identity, citizenship, and heritage. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.

**Prerequisite: None**

**CHC 2P1 - Canadian History since World War 1, Grade 10 (Applied)** - This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

**Prerequisite: None**

**CHC 2L1 - Canadian History in the Twentieth Century, Grade 10 (Locally Developed)** - This course focuses on the connections between the student and key people, events and themes in Canadian contemporary studies. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of media.

**Prerequisite: None**

**CHV 2O5 - Civics, Grade 10 (Open)** - This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them. This course will be timetabled with the career studies half credit course and is a .5 credit.

**Prerequisite: None**

**CHW 3M1 - World History to the End of the Fifteenth Century, Grade 11 (University/College)** - This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in Africa, Asia, Europe, and the Americas. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

**Prerequisite: CHC 2D1 or CHC 2P1**

**CLU 3M1 - Understanding Canadian Law, Grade 11 (University/College)** - 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 laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

**Prerequisite: CHC 2D1 or CHC 2P1**

**CHT 3O1 - World History since 1900: Global and Regional Interactions, Grade 11 (Open)** - This course focuses on major developments in world history from 1900 to the present. Students will explore the causes and consequences of global and regional conflicts, the impact of significant individuals and social movements, and the effects of social, economic, and political developments around the world. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating interactions within and between nations and other historical developments and events, including those that continue to affect people in various parts of the world.

**Prerequisite:** CHC 2D1 or CHC 2P1

**CLN 4U1 - Canadian and International Law, Grade 12 (University)** - This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop an understanding of the principles of Canadian and international law and of issues related to human rights and freedoms, conflict resolution, and criminal, environmental, and workplace law, both in Canada and internationally. Students will apply the concepts of legal thinking and the legal studies inquiry process, and will develop legal reasoning skills, when investigating these and other issues in both Canadian and international contexts.

**Prerequisite:** Any 3U or 3M course in Canadian and World Studies, English or Social Science.

**CHY 4U1 - World History since the Fifteenth Century, Grade 12 (University)** - This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and ideas and assess societal progress or decline in world history.

**Prerequisite:** Any 3U or 3M course in Canadian and World Studies, English or Social Science.

**CHY 4C1 - World History since the Fifteenth Century, Grade 12 (College)** - This course explores key developments and events in world history since approximately 1450, with a focus on interactions within and between various regions. Students will examine social, economic, and political developments and how they have affected different peoples. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process. Including the interpretations and analysis of evidence, when investigating key turning points in world history and historical forces that have shaped our world.

**Prerequisite:** Any 3M or 3C course in Canadian and World Studies, English or Social Science.

## CLASSICAL STUDIES AND INTERNATIONAL LANGUAGES – FRENCH

**FSF 1D1 - Core French, Grade 9 (Academic)** - This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will continue to develop language knowledge and skills by using language-learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

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

**FSF 1P1 - Core French, Grade 9 (Applied)** - This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

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

**FSF 141 - Core French - Beginner, Grade 9 (Locally Developed)** - This course is designed for students who have limited knowledge of French. Students will develop the ability to use oral and written French for daily needs, acquire basic conversation skills and vocabulary, and use simple sentence patterns orally and in writing. Students will develop an awareness of diverse French-speaking communities and acquire an understanding and appreciation of these cultures. The thematic approach will focus on work applications and fundamental social skills.

**Prerequisite: None**

**FSF 2D1 - Core French, Grade 10 (Academic)** - This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.

**Prerequisite: FSF 1D1 or FSF 1P1**

**FSF 3U1 - Core French, Grade 11 (University)** - This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

**Prerequisite: FSF 2D1**

**FSF 4U1 - Core French, Grade 12 (University)** - This course provides extensive opportunities for students to speak and interact in French independently. Students will apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

**Prerequisite: FSF 3U1**

## CLASSICAL STUDIES AND INTERNATIONAL LANGUAGES – SPANISH

**LWS BD1 - Spanish, Grade 10 (Academic)** - This course provides students with the Spanish language learning experiences that will enable them to communicate in the language of study. Students will continue to develop and apply their speaking skills in a variety of contexts, and will participate in activities that will improve their reading comprehension and writing skills. They will also continue to explore aspects of the culture of countries where the language under study is spoken by taking part in activities involving both print and technological resources. Although students will continue to expand their vocabulary and repertoire of language structures, the language they will use at this level will still be simple.

**Prerequisite: None**

**LWS CU1 - Spanish, Grade 11 (University)** - This course offers students opportunities to further develop their knowledge of the Spanish language and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.

**Prerequisite: LWSBD1**

**LWS DU1 - Spanish, Grade 12 (University)** - This course prepares students for university studies in the Spanish language. Students will enhance their ability to use the language with clarity and precision, and will develop the language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of the countries where Spanish is spoken through the use of community resources and computer technology.

**Prerequisite: LWSCU1**

**LWV 4U1 - Classical Civilization, Grade 12 (University)** - This course allows students to explore the beliefs and achievements of the classical world, which have shaped Western thought and civilization. Students will investigate such aspects of classical culture as its mythology, art, literature, and philosophy, as well as elements of ancient Greek and Latin, through a variety of activities such as dramatizations, audio-visual presentations, and discussions. By reading classical authors in English and examining archaeological evidence, students will enhance both their communication skills and their ability to think critically and creatively.

**Prerequisite:** ENG 2D1

**COMPUTER STUDIES**

**ICS 2O1 - Introduction to Computer Studies, Grade 10 (Open)** - 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.

**Prerequisite:** None

**ICS 3U1 - Introduction to Computer Science, Grade 11 (Academic)** - 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

**ICS 3C1 - Introduction to Computer Programming, Grade 11 (College)** - 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

**ICS 4U1 - Computer Science, Grade 12 (University)** - This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.

**Prerequisite:** ICS 3U1

**ICS 4C1 - Computer Programming, Grade 12 (College Preparation)** - 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:** ICS 3C1

## COOPERATIVE EDUCATION (CO-OP)

**DCO 30D – Creating Opportunities through Co-op, Grade 11 (Open) (2 credits)** - This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives. This course can be linked to a related course(s) to help meet relevant learning expectations.

**GLN 40D – Creating Opportunities through Co-op, Grade 12 (Open) (4 credits)** - Students who are interested in this full day co-op program must speak with the Cooperative Education teacher BEFORE submitting an application package.

**Additional Requirements:** Students MUST complete and submit the Cooperative Education Program Application Package by the course selection closing date to be considered for the Co-op program. An interview will follow as part of the application process.

## ENGLISH

**ENG 1D1 - English, Grade 9 (Academic)** - This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

**ENG 1P1 - English, Grade 9 (Applied)** - This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college, or workplace preparation courses in Grades 11 and 12.

**ENG 1L1 - English, Grade 9 (Locally Developed)** - This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 10 Essential course. This course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

**ENG 2D1 - English, Grade 10 (Academic)** - This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

**Prerequisite:** ENG 1D1 or ENG 1P1

**ENG 2P1 - English, Grade 10 (Applied)** - 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: ENG 1P1 or ENG 1D1**

**ENG 2L1 - English, Grade 10 (Locally Developed)** - This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 Workplace Preparation course. This course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

**Prerequisite: ENG 1L1 or ENG 1P1**

**ENG 3U1 - English, Grade 11 (University)** - This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures; as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

**Prerequisite: ENG 2D1**

**ENG 3C1 - English, Grade 11 (College)** - This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.

**Prerequisite: ENG 2P1 or ENG 2D1**

**ENG 3E1 - English, Grade 11 (Workplace)** - This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

**Prerequisite: ENG 2L1 or ENG 2P1**

**ENG 4U1 - English, Grade 12 (University)** - This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.

**Prerequisite: ENG 3U1**

**ENG 4C1 - English, Grade 12 (College)** - This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.

**Prerequisite: ENG 3C1 or ENG 3U1**

**ENG 4E1 - English, Grade 12 (Workplace)** - This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

**Prerequisite: ENG 3E1 or ENG 3C1**

**EWC 4U1 - The Writer's Craft English, Grade 12 (University)** - This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

**Prerequisite: ENG 3U1**

**EWC 4C1 - The Writer's Craft English, Grade 12 (College)** - This course emphasizes knowledge and skills related to the craft of writing. Students will investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

**Prerequisite: ENG 3C1**

**OLC 4O1 - Ontario Secondary School Literacy Course, Grade 12 (Open)** - The OSSLC will be a full credit course designed for those students who have been unable to succeed on the Literacy Test. Successful completion of this course will meet the diploma requirements for the Literacy Test for those students who have failed the test at least once. Students must have had two opportunities to take the test. The course will consist of two components (reading and writing) and must be taken as a whole regardless of test results. The OSSLC is a final alternative for a specific student population to meet this diploma requirement before the end of high school. Students who have not attempted the test will not be eligible to take course.

**Prerequisite: One unsuccessful attempt at passing the Ontario Secondary School Literacy test.**

## GUIDANCE AND CAREER EDUCATION

**GLC 2O5 - Career Studies, Grade 10 (Open)** - 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. This course will be timetabled with the civics half credit course and is a .5 credit.

**GPP 3O1 - Leadership and Peer Support, Grade 11 (Open)** - This course prepares and motivates students to provide leadership and assistance to others in their schools and communities. Students will develop skills in communication, interpersonal relations, coaching, leadership, teamwork and conflict management, and apply them in roles such as tutoring and mentoring. Students will also learn the value and complexity of social diversity, while acquiring an appreciation of the importance of contributing to their communities and helping others throughout their lives. Peer tutoring placements according to student interest will be included.

**Prerequisite: An application is required.**



**PPL 1OF (Female) / PPL 1OM (Male) - Healthy Active Living Education, Grade 9 (Open)** - 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 2OF (Female) / PPL 2OM (Male) - Healthy Active Living Education, Grade 10 (Open)** - This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

**Prerequisite: None**

**PPZ 3C1 - Health for Life, Grade 11 Co-ed (College Preparation)** - This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion. This course is 70% activity, 30% health.

**Prerequisite: None**

**PAF 3O1 - Fitness and Conditioning Course, Grade 11 Co-ed (Open)** - This course emphasizes regular participation in a variety of fitness and training programs that promote lifelong healthy active living. Student learning will include the application of movement principles in relation to resistance training, core stability training, strength training, cardiovascular health, safety and injury prevention, while maintaining an emphasis on safety and movement form. Student participation will enhance personal movement competence, fitness, and health. The main goals of the course are to introduce the principles and techniques of strength and conditioning in a safe and fun environment. Two-week blocks of skill-related fitness with an ice hockey focus, a field sport and a court sport focus will be included. Students will examine training principles, energy systems, muscle anatomy, and fitness theory. Students are required to maintain a daily fitness log as well as an organized notebook for classroom sessions.

**Prerequisite: None**

**PPL 3OC - Healthy Active Living Education, Grade 11 Co-ed (Open)** - This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

**Prerequisite: None**

**PSK 4U1 - Introduction to Kinesiology, Grade 12 Co-ed (University Preparation)** - 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 sports, and the physiological, psychological, and social factors that influence an individual's participation in physical activity and sport. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration.

**Prerequisite: Any Grade 11 university or university/college course in science, or any grade 11 or 12 course in health and physical education including PAF 3O1 – Fitness and Conditioning.**

**PLF 4MC - Recreation and Healthy Active Living Leadership, Grade 12 Co-ed (College/University Preparation)** - 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 decision-making and active participation to 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.

**Prerequisite:** Any health and physical education course.

**PAF 4O1 Fitness and Conditioning Course, Grade 12 Co-ed (Open)** - This course emphasizes regular participation in a variety of fitness and training programs that promote lifelong healthy active living. Student learning will include the application of movement principles in relation to resistance training, core stability training, strength training, cardiovascular health, safety and injury prevention, while maintaining an emphasis on safety and movement form. Student participation will enhance personal movement competence, fitness, and health. The main goals of the course are to introduce the principles and techniques of strength and conditioning in a safe and fun environment. Two-week blocks of skill-related fitness with an ice hockey focus, a field sport and a court sport focus will be included. Students will examine training principles, energy systems, muscle anatomy, and fitness theory. Students are required to maintain a daily fitness log as well as an organized notebook for classroom sessions.

**Prerequisite:** PAF 3O1

**PPL 4OC - Healthy Active Living Education, Grade 12 Co-ed (Open)** - This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

**Prerequisite:** None

## MATHEMATICS

**MAT 1O1 - Principles of Mathematics, Grade 9 (Open)** - This course enables students to develop understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a relationship. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**MAT 1L1 - Mathematics, Grade 9 (Locally Developed)** - This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the MAT2L1 course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills to solving authentic, everyday problems. Students have opportunities to further 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.

**MPM 2D1 - Principles of Mathematics, Grade 10 (Academic)** - This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relationships and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically as they solve multi-step problems and communicate their thinking.

**Prerequisite:** MPM 1D1      Recommended: 70% in MPM 1D1

**MFM 2P1 - Foundations of Mathematics, Grade 10 (Applied)** - This course enables students to consolidate their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relationships. Students will investigate similar triangles, the trigonometry of right-angled triangles, and the measurement of three-dimensional objects. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Prerequisite:** MAT 1O1, MPM 1D1 or MFM 1P1

**MAT 2L1 - Mathematics, Grade 10 (Locally Developed)** - This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

**Prerequisite:** MAT 1O1 or MAT 1L1

**MCR 3U1 - Functions, Grade 11 (University)** - This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**Prerequisite:** MPM 2D1 or MCF 3M1      Recommended: 75% in MPM 2D1

**MCF 3M1 - Functions and Applications, Grade 11 (University/College)** - This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**Prerequisite:** MPM 2D1 or MFM 2P1      Recommended: At least 85% in MFM2P1 and discussion with math department head.

**MBF 3C1 - Foundations for College Mathematics, Grade 11 (College)** - This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Prerequisite:** MFM 2P1 or MPM 2D1

**MEL 3E1 - Mathematics for Work and Everyday Life, Grade 11 (Workplace)** - This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Prerequisite:** MFM 1P1 or MAT 2L1

**MCV 4U1 - Calculus and Vectors, Grade 12 (University)** - This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

**Prerequisite:** MHF 4U1      Note: Advanced Functions can be taken concurrently with, or may precede Calculus and Vectors.

**MDM 4U1 - Mathematics of Data Management, Grade 12 (University)** - This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.

**Prerequisite:** MCR 3U1 or MCF 3M1

**MHF 4U1 - Advanced Functions, Grade 12 (University)** - This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

**Prerequisite:** MCR 3U1 or MCT 4C1

**MCT 4C1 - Mathematics for College Technology, Grade 12 (College)** - 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.

**Prerequisite:** MCF 3M1 or MCR 3U1

**MAP 4C1 - Foundation for College Mathematics, Grade 12 (College)** - This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; simplify expressions; and solve equations. 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.

**Prerequisite:** MBF 3C1, MCF 3M1 or MCR 3U1

**MEL 4E1 - Mathematics for Work and Everyday Life, Grade 12 (Workplace)** - 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:** MEL 3E1

**SNC 1D1 - 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 1P1 - 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 1L1 - 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 Science Grade 11 Workplace Preparation 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 development their skills in reading, writing, and oral language through relevant and practical science activities.

**SNC 2D1 - Science, Grade 10 (Academic)** - This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.

**Prerequisite:** SNC 1D1 or SNC 1P1      Recommended: 65% in SNC 1D1 and 90% in SNC1P1

**SNC 2P1 - Science, Grade 10 (Applied)** - This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter.

**Prerequisite:** SNC 1D1 or SNC 1P1

**SNC 2L1 - Science, Grade 10 (Open)** - 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.

Recommended: SNC 1D1, SNC 1P1 or SNC 1L1

**SBI 3U1 - Biology, Grade 11 (University)** - 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 understudy, and helps students refine skills related to scientific investigation.

**Prerequisite:** SNC 2D1

**SCH 3U1 - Chemistry, Grade 11 (University)** - 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:** SNC 2D1      Recommended: 70% in MPM 2D1

**SPH 3U1 - Physics, Grade 11 (University)** - This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

**Prerequisite:** SNC 2D1      Recommended: 70% in MPM 2D1

**SBI 3C1 - Biology, Grade 11 (College)** - 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:** SNC 2D1 or SNC 2P1

**SVN 3E1 - Environmental Science, Grade 11 (Workplace)** - 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.

**Prerequisite:** SNC 1P1, SNC 1L1 or SNC 2L1

**SBI 4U1 - Biology, Grade 12 (University)** - 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:** SBI 3U1      Recommended: SCH 3U1

**SCH 4U1 - Chemistry, Grade 12 (University)** - 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:** SCH 3U1

**SPH 4U1 - Physics, Grade 12 (University)** - This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

**Prerequisite:** SPH 3U1      Recommended: 70% in SPH 3U1 and MCF 3M1 or MCR 3U1

**SPH 4C1 - Physics, Grade 12 (College)** - - 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:** SNC 2D1 or SNC 2P1      Recommended: MBF 3C1 mark of 65%

This course is not offered in 2021-22 and will be offered in 2022-23.

**SCH 4C1 - Chemistry, Grade 12 (College)** - This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.

**Prerequisite:** SNC 2D1 or SNC 2P1      Recommended: Mathematics mark of 65%

## SOCIAL SCIENCE AND THE HUMANITIES – FAMILY STUDIES

**HIF 1O1 - Exploring Family Studies, Grade 9 (Open)** - This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.

**Prerequisite:** None

**HFN 2O1 - Food and Nutrition, Grade 10 (Open)** - This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.

**Prerequisite:** None

**HNC 3C1 - Understanding Fashion, Grade 11 (College)** - This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibers, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

**Prerequisite:** None

**HLS 3O1 - Housing and Home Design, Grade 11 (Open)** - This course introduces students to a range of issues related to housing and home design. Students will learn about the needs that housing fulfils; housing options; home maintenance and safety; and environmental, economic, legal and social considerations related to housing. They will use the elements and principles of design to analyse design and decorating decisions. Students will develop research skills as they investigate issues related to housing and home design.

**Prerequisite:** None - This course is offered in 2021-22 and will not be offered in 2022-23.

**HPC 3O1 - Raising Healthy Children, Grade 11 (Open)** - This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

**Prerequisite:** None - This course is not offered in 2021-22 and will be offered in 2022-23.

**HFA 4U1 - Nutrition and Health, Grade 12 (University)** - This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health.

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

**HFL 4E1 - Food and Healthy Living, Grade 12 (Workplace)** - This course focuses on the fundamental food needs of young adults. Students will learn how to stock a kitchen, make nutritious food choices, and accommodate the food needs of others. Through a range of practical experiences, they will develop skills needed in food preparation for personal use and for employment in the food industry. They will also learn about dining etiquette in different contexts and about responsible consumer practices. Students will use social science research methods to investigate issues related to food preparation and nutrition.

**Prerequisite:** None            Recommended: HFN2O1

## SOCIAL SCIENCE – ANTHROPOLOGY, PSYCHOLOGY AND SOCIOLOGY

**HSP 3U1 - Introduction to Anthropology, Psychology and Sociology, Grade 11 (University)** - This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines.

**Prerequisite:** ENG 2D1 or CHC 2D1

**HSP 3C1 - Introduction to Anthropology, Psychology and Sociology, Grade 11 (College)** - This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.

**Prerequisite:** None

**HHS 4U1 - Families in Canada, Grade 12 (University)** - This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

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

**HHS 4C1 - Families in Canada, Grade 12 (College)** - 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.

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



The Special Education department at IDCI offers a wide and diverse range of supports for students with Individual Education Plans. Our programs include:

### LEARNING SUPPORT CENTRE (LSC)

- This is a space that is open all day for students with Individual Education Plans (although all are welcome) to receive support and accommodations in their courses from Learning Support Teachers on an as-needed basis; assistive technology is available for all students to support learning
- Students may earn Learning Strategies credits (GLE/GLS) that support work from other courses while students learn about time management, organization, learning skills and self-assessment; GLE/GLS is an option based on individualized programming and student need.

### DEVELOPMENTAL SPECIAL EDUCATION

- Students in our DE Program work toward a Certificate of Accomplishment; the alternative curriculum includes life skills, vocational skills, functional literacy and numeracy skills, social skills, physical education, arts skills, and technology skills to prepare students for as much independence as possible. The TVDSB allocates placements in this program.

### GIFTED AND TALENTED EDUCATION (GATE)

- **ADVANCED PLACEMENT** - Students who are high achieving, motivated, independent learners in the University pathway are encouraged to consider Advanced Placement (AP) examinations in their senior years. Advanced Placement exams are standardized exams written in May (there are exams in various subject areas) that allows students to potentially earn a university credit, while giving them a sense of what university courses are like. While students must prepare for AP independently and outside of their current course load, IDCI can facilitate the ordering and proctoring of the exam, and help connect students with a mentor. Cost is approximately \$130.
- **ENRICHMENT** - Enrichment opportunities, both at the board and school level, are open to all students who are interested in learning opportunities that stretch beyond the curriculum.

## TECHNOLOGICAL EDUCATION – EXPLORING TECHNOLOGIES

The Exploring Technologies courses will enable 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 post-secondary education and training pathways leading to careers in technology-related fields. The Exploring Technologies courses are for Grade 9 students only.

### TIJ 10C - Exploring Technologies, Grade 9 (Open)

**This course will include three (3) technology areas:**

- Communications (audio/video, photography, graphic design)
- Construction (woodworking projects and machines/tools)
- Technological Design (architecture, computer-aided design, 3D printing, sign-making)

### TIJ 10M - Exploring Technologies, Grade 9 (Open)

**This course will include two (2) technology areas:**

- Manufacturing (precision machining using lathes, milling machines, CNC)
- Welding (SMAW – stick welding) and Sheet Metal Fabrication

## COMMUNICATIONS TECHNOLOGY

**TGJ 201 - Communications Technology, Grade 10 (Open)** - This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

**Prerequisite: None**

**TGJ 3M1 - Communications Technology, Grade 11 (University/College)** - 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**

**TGJ 3OY - Communications Technology: Broadcast and Print Production - Yearbook, Grade 11 (Open)** - This course enables students to develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include the making of signs, yearbooks, video and/or audio productions, newscasts, and documentaries. Students will also develop an awareness of related environmental and societal issues and explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields.

**Prerequisite: None**

**TGJ 4M1 - Communications Technology, Grade 12 (University/College)** - 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: TGJ 3M1**

## CONSTRUCTION TECHNOLOGY

**TCJ 201 - Construction Technology, Grade 10 (Open)** - This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and post-secondary pathways leading to careers in the industry.

**Prerequisite: None**

**TCJ 3CE - Construction Engineering Technology - Electrical Focus, Grade 11 (College)** - This course introduces students to electrical materials and processes through opportunities to design and build various electrical projects. Students will learn to create and read electrical working drawings; become familiar with common electrical 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 used in electrical installations and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and post-secondary pathways leading to careers in the electrical industry.

**Prerequisite: None**

**TCJ 3C1 - Construction Engineering Technology, Grade 11 (College)** - 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**

**TWJ 3E1 - Custom Woodworking, Grade 11 (Workplace)** - This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, explore apprenticeships, post-secondary training and career opportunities in the field that may be pursued directly after graduation.

**Prerequisite: None**

**TCJ 4CE - Construction Engineering Technology - Electrical Focus, Grade 12 (College)** - This course enables students to further develop technical knowledge and skills related to residential electrical and to explore light commercial electrical construction. Students will continue to gain hands on experience using a variety of materials, processes, tools, and equipment; create and interpret electrical drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial electrical construction. Students will also expand their awareness of environmental and societal issues related to construction technology and explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

**Prerequisite: TCJ 3CE**

**TCJ 4C1 - Construction Engineering Technology, Grade 12 (College)** - 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: TCJ 3C1**

**TWJ 4E1 - Custom Woodworking, Grade 12 (Workplace)** - This course enables students to further develop knowledge and skills related to the planning, design, and construction of cabinets and furniture for residential and/or commercial projects. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that pursued directly after graduation.

**Prerequisite: TWJ 3E1**

**TMJ 2O1 - Manufacturing Technology - Machining Focus, Grade 10 (Open)** - This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and post-secondary pathways leading to careers in the industry.

**Prerequisite: None**

**TMJ 2OW - Manufacturing Technology - Welding Focus, Grade 10 (Open)** - This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and post-secondary pathways leading to careers in the industry.

**Prerequisite: None**

**TMJ 3C1 - Manufacturing Technology - Machining Focus, Grade 11 (College)** - 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**

**TMJ 3EW - Manufacturing Technology - Welding Focus, Grade 11 (Workplace)** - This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

**Prerequisite: None**

**TMJ 4C1 - Manufacturing Technology - Machining Focus, Grade 12 (College)** - 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: TMJ 3C1**

**TMJ 4EW - Manufacturing Technology - Welding Focus, Grade 12 (Workplace)** - This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

**Prerequisite: None**

## TECHNOLOGICAL DESIGN

**TDJ 201 - Technological Design, Grade 10 (Open)** - 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 the appropriate tools, techniques, and strategies. Student projects may include design homes, vehicles, bridges, robotic arms, clothing, and other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and post-secondary education and training leading to careers in the field. This course is recommended if you are considering a career in any area of design, architecture, or engineering.

**Prerequisite: None**

**TDJ 3M1 - Technological Design, Grade 11 (University/College)** - 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. This course is recommended if you are considering a career in any area of design, architecture, or engineering.

**Prerequisite: None**

**TDJ 4M1 - Technological Design, Grade 12 (University/College)** - 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 explore career opportunities and the post-secondary education and training requirements for them. This course is recommended if you are considering a career in any area of design, architecture, or engineering.

**Prerequisite: TDJ 3M1**

## TRANSPORTATION TECHNOLOGY

**TTJ 201 - Transportation Technology, Grade 10 (Open)** - This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and post-secondary pathways leading to careers in the transportation industry.

**Prerequisite: None**

**TTJ 3C1 - Transportation Technology, Grade 11 (College)** - 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**

**TTJ 3CA/3CB - Transportation Technology, Grade 11 (College)** - Students specializing in Transportation Technology may take the A and B course code options.

**TTJ 4C1 - Transportation Technology, Grade 12 (College)** - 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:** TTJ 3C1

**TTJ 4CA/4CB - Transportation Technology, Grade 12 (College)** - Students specializing in Transportation Technology may take the A and B course code options.

### ONTARIO YOUTH APPRENTICESHIP PROGRAM (OYAP)

- Students can obtain their “Level One” college apprenticeship training in a skilled trade.
- Training is in conjunction with a related all-day cooperative learning experience (coop) during the second semester of their grade 12 year.
- May lead to becoming a registered apprentice permitting the coop experience to count toward apprenticeship hours.
- Coop experience earns 4 credits toward graduation.

Students attend College for the first of multiple sessions of ‘in school’ training which all apprentices must complete during their certification, while also learning hands-on trade skills at their coop placement. See your Guidance Counsellor for complete details.

### SPECIALIST HIGH SKILLS MAJOR PROGRAM (SHSM)

IDCI has three (3) Specialist High Skills Major (SHSM) programs in the Technology area. Successful completion of a SHSM area will allow the student to graduate with a RED SEAL on their graduation diploma and formal recognition on their transcript.

The SHSM areas at IDCI include the following: **Construction, Manufacturing, and Transportation.**

Students enrolled in this program may specialize by selecting the **Master Credit option** (TCS 4C1) in their grade 12 year. See your Guidance Counsellor for complete details.

The **Dual Credit Program** allows senior high school students the opportunity to **earn high school and college credits at the same time**. Students typically attend Fanshawe College once a week for a fifteen week period. There is **no cost** for this program to approved students. See your Guidance Counsellor for complete details.

**The charts below show courses that may be taken to satisfy SHSM requirements.**

<b>CONSTRUCTION SPECIALIST HIGH SKILLS MAJOR (SHSM)</b>									
<b>Credits Required</b>		<b>Career Pathway</b>							
		<b>Workplace</b>		<b>Apprenticeship</b>		<b>College</b>		<b>University</b>	
		<b>Gr 11</b>	<b>Gr 12</b>	<b>Gr 11</b>	<b>Gr 12</b>	<b>Gr 11</b>	<b>Gr 12</b>	<b>Gr 11</b>	<b>Gr 12</b>
<b>MAJOR CREDITS</b> 4 Credits Needed (minimum of one Gr. 11 and one Gr. 12 credit, may include 1 Cooperative Education credit)	Major Credits Construction Electrical Custom Woodworking TCJ, TCJE and TWJ	TCJ 3C1 TCJ 3CE TWJ 3E1	TCJ 4C1 TCJ 4CE TWJ 4E1	TCJ 3C1 TCJ 3CE TWJ 3E1	TCJ 4C1 TCJ 4CE TWJ 4E1	TCJ 3C1 TCJ 3CE TWJ 3E1	TCJ 4C1 TCJ 4CE TWJ 4E1	TCJ 3C1 TCJ 3CE TWJ 3E1	TCJ 4C1 TCJ 4CE TWJ 4E1
	Other Major Credits	TMJ 3C1 TMJ 3EW	TMJ 4C1 TMJ 4EW	TDJ 3M1 TMJ 3C1 TMJ 3EW	TDJ 4M1 TMJ 4C1 TMJ 4EW SPH 4C1	TDJ 3M1 TMJ 3C1 TMJ 3EW	TDJ 4M1 TMJ 4C1 TMJ 4EW SPH 4C1	TDJ 3M1 SPH 3U1	TDJ 4M1 SPH 4U1
<b>ADDITIONAL CREDITS</b> Includes content delivered in the sector's context	English	<b>2</b>		<b>1</b>		<b>1</b>		<b>1</b>	
	Math	<b>1</b>		<b>2</b>		<b>2</b>		<b>2</b>	
	Business Studies or Science or an Additional Cooperative Education Credit	<b>1</b> (either in grade 11 or grade 12)		<b>1</b> (either in grade 11 or grade 12)		<b>1</b> (either in grade 11 or grade 12)		<b>1</b> (either in grade 11 or grade 12)	
Cooperative Education		<b>2</b>		<b>2</b>		<b>2</b>		<b>2</b>	
<b>Total Number of Credits</b>		<b>10</b>		<b>10</b>		<b>10</b>		<b>10</b>	

MANUFACTURING SPECIALIST HIGH SKILLS MAJOR (SHSM)									
Credits Required		Career Pathway							
		Workplace		Apprenticeship		College		University	
		Gr 11	Gr 12	Gr 11	Gr 12	Gr 11	Gr 12	Gr 11	Gr 12
<b>MAJOR CREDITS</b> 4 Credits Needed (minimum of one Gr .11 and one Gr. 12 credit, may include 1 Cooperative Education credit)	Major Credits -Machining -Welding -Tech Design	TMJ 3EW TWJ 3E1 IDC 3O1	TMJ 4EW TWJ 4E1 IDC 4O1	TMJ 3C1 TMJ 3EW TWJ 3E1 TTJ 3C1	TMJ 4C1 TMJ 4EW TWJ 4E1 TTJ 4C1	TMJ 3C1 TMJ 3EW TDJ 3M1 TCJ 3C1 TTJ 3C1 TWJ 3E1	TMJ 4C1 TWJ 4E1 TDJ 4M1 TCJ 4C1 TTJ 4C1 TWJ 4E	TDJ 3M1 SCH 3U1 SPH 3U1 TGJ 3M1	TDJ 4M1 SCH 4U1 SPH 4U1 TGJ 4M1
<b>ADDITIONAL CREDITS</b> Includes content delivered in the sector's context	English	2 (one credit must be in grade 12)		1		1		1	
	Math	1		1		1		1	
	Science or an Additional Cooperative Education Credit	-----		1 (either in grade 11 or grade 12)		1 (either in grade 11 or grade 12)		1 (either in grade 11 or grade 12)	
Cooperative Education		2		2		2		2	
Total Number of Credits		9		9		9		9	

TRANSPORTATION SPECIALIST HIGH SKILLS MAJOR (SHSM)									
Credits Required		Career Pathway							
		Workplace		Apprenticeship		College		University	
		Gr 11	Gr 12	Gr 11	Gr 12	Gr 11	Gr 12	Gr 11	Gr 12
<b>MAJOR CREDITS</b> 4 Credits Needed (minimum of one Gr. 11 and one Gr. 12 credit)	Major Credits Transportation TTJ	TTJ 3CA TTJ 3CB	TTJ 4CA TTJ 4CB	TTJ 3CA TTJ 3CB	TTJ 4CA TTJ 4CB	TTJ 3CA TTJ 3CB	TTJ 4CA TTJ 4CB	TTJ 3CA TTJ 3CB	TTJ 4CA TTJ 4CB
	Other Major Credits	TMJ 3C1 TMJ 3EW	TMJ 4C1 TMJ 4EW	TDJ 3M1 TMJ 3C1 TMJ 3EW	TDJ 4M1 TMJ 4C1 TMJ 4EW	TDJ 3M1 TMJ 3C1 TMJ 3EW	TDJ 4M1 TMJ 4C1 TMJ 4EW	TDJ 3M1 SPH 3U1	TDJ 4M1 SPH 4U1
<b>ADDITIONAL CREDITS</b> Includes content delivered in the sector's context	English	1		1		1		1	
	Math	1		1		1		1	
	Business Studies or Science or an Additional Cooperative Education Credit	1 (either in grade 11 or grade 12)		1 (either in grade 11 or grade 12)		1 (either in grade 11 or grade 12)		1 (either in grade 11 or grade 12)	
Cooperative Education		2		2		2		2	
Total Number of Credits		9		9		9		9	



**OVERVIEW OF COURSE OFFERINGS – 2021/2022**

<b>SUBJECT AREA</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
<b>THE ARTS</b> <b>DRAMA</b>	ADA 101	ADA 201	ADA 301	ADA 4E1
<b>MUSIC</b> - Brass, Woodwinds and Percussion - Strings - Guitar - Vocal	AMI 101 AMS 101	AMI 201 AMS 201 AMG 201	AMI 3M1 AMS 3M1 AMG 301	AMI 4M1 AMS 4M1 AMU 4EG
<b>VISUAL ART</b>	AVI 101	AVI 201	AVI 3M1 AVI 301 AWM 3M1	AVI 4M1 AVI 4E1
<b>BUSINESS STUDIES</b>	BTT 101	BBI 201	BAF 3M1 BMI 3C1	BOH 4M1 BOG 4E1
<b>GEOGRAPHY</b>	CGC 1D1 CGC 1P1 CGC 1PW		CGG 301	CGW 4U1 CGR 4M1 CGR 4E1
<b>HISTORY</b>		CHC 2D1 CHC 2P1 CHC 2L1	CHV 2O5  CHW 3M1 CHT 301	CHY 4U1 CHY 4C1
<b>LAW</b>			CLU 3M1	CLN 4U1
<b>CO-OPERATIVE EDUCATION</b>			DCO 3OD	GLN 4OD
<b>ENGLISH</b>	ENG 1D1 ENG 1P1	ENG 1L1  ENG 2D1 ENG 2P1	ENG 2L1  ENG 3U1 ENG 3C1	ENG 3E1  ENG 4U1 ENG 4C1 EWC 4U1 EWC 4C1
<b>FRENCH</b>	FSF 1D1 FSF 1P1	FSF 141  FSF 2D1	FSF 3U1	FSF 4U1
<b>SPANISH</b>		LWS BD1	LWS CU1	LWS DU1
<b>CLASSICS</b>				LVV 4U1
<b>GUIDANCE</b>		GLC 2O5	GPP 301	
<b>HEALTH &amp; PHYSICAL EDUCATION</b>	PPL 1OF PPL 1OM	PPL 2OF PPL 2OM	PPZ 3C1 PAF 3O1 PPL 3OC	PSK 4U1 PLF 4MC PAF 4O1 PPL 4OC
<b>MATHEMATICS</b>	MAT 1O1 MAT 1L1	MPM 2D1 MFM 2P1 MAT 2L1	MCR 3U1 MCF 3M1 MBF 3C1	MEL 3E1 MCV 4U1 MDM 4U1 MHF 4U1 MAP 4C1 MCT 4C1
<b>SCIENCE</b>	SNC 1D1 SNC 1P1	SNC 1L1  SNC 2D1 SNC 2P1	SNC 2L1  SBI 3U1 SCH 3U1 SPH 3U1 SBI 3C1	SVN 3E1 SBI 4U1 SCH 4U1 SPH 4U1
<b>FAMILY STUDIES</b>	HIF 1O1	HFN 2O1	HNC 3C1 HSP 3U1 HSP 3C1	HLS 3O1 HPC 3O1 HFA 4U1 HFL 4E1 HHS 4U1 HHS 4C1
<b>SOCIAL SCIENCE</b>				
<b>TECHNOLOGICAL EDUCATION</b> <i>Exploring Technologies</i> <i>Communication</i> <i>Construction</i>	TJ 1OC TJ 1OM	TGJ 2O1 TCJ 2O1	TGJ 3M1 TCJ 3C1	TGJ 3OY TWJ 3E1 TGJ 4M1 TWJ 4E1 TCS 4C1
<i>Electrical</i> <i>Manufacturing - Machining</i> <i>Manufacturing – Welding</i> <i>Technological Design</i> <i>Transportation</i> <i>Computer Studies</i>		TMJ 2O1 TMJ 2OW TDJ 2O1 TTJ 2O1 ICS 2O1	TCJ 3CE TMJ 3C1 TMJ 3EW TDJ 3M1 TTJ 3C1 ICS 3U1	TTJ 3CA/B ICS 3C1 TCJ 4CE TMJ 4C1 TMJ 4EW TDJ 4M1 TTJ 4C1 ICS 4U1 TTJ 4 CA/B ICS 4C1