Clarke High School
“Home of the Raiders”
2020 - 2021

Course Calendar
http://clarke.kprdsb.ca
Welcome to Clarke High School. This is an important time of the year when students plan and choose their educational program for the upcoming school year. It is also an opportunity for students to review and discuss, with their parents, their academic goals and to determine appropriate course choices. As a school, student course selections help to develop the overall school timetable from Grades 9 to 12.

It is the responsibility of all students to be well informed and to choose their courses accurately as it becomes difficult to switch to other courses after the school timetable has been developed and a new semester has begun. If there are any specific questions related to programs, students should speak with their teachers or the Guidance/Student Success staff before choosing their courses for the next school year. Students are encouraged to speak with their current teachers for course content.

MyBlueprint allows you, as students, to plan and map out your courses throughout your high school years. Many senior courses have prerequisites. It is very important to read carefully the information provided in this calendar.

The Staff and Administration at Clarke High School are very dedicated to ensuring our students experience success and to improve overall student achievement.

There is a great deal of course offerings at Clarke High School to meet the learning needs and interests of our students. Students are encouraged to consider all options and opportunities made available. With careful planning and reviewing the course selections, every student can work towards accomplishing their academic goals.

We look forward to working with all our students. You will enjoy being part of an exciting and engaging learning environment. Plan carefully and ask questions. Best wishes!

S. Grdovic
Principal
Clarke High School has its heart in the community, and provides an exceptional education for every pathway. Clarke High School offers diverse experiences in academics, leadership and extra curricular activities, while maintaining an inclusive, supportive environment that nurtures every student.

Raiders are Ready for the Future

With extensive opportunities within the classroom and outside its walls, Raiders are developing the essential skills to prepare them for the future.

#Raidernation Pride

Raider staff and students are proud of Clarke High School and their role within it. To hear Raiders describe their experience at Clarke, watch the Clarke HS Video on YouTube!

Course Calendar 2020-2021

COURSES

- Arts - including music, strings, band (Jazz & Rock), guitar and visual arts
- Business - accounting, entrepreneurship, marketing and international business
- Computers & Communication - including digital imagery, programming, animation, yearbook and web design
- E-learning Hub - access to a wide variety of courses within KPR and beyond
- Skilled Trades & Technology - Construction (single or dual credit)

CO-CURRICULAR

- Softball/Baseball
- Soccer
- Volleyball
- Games Club
- Student Council
- Basketball
- French Club
- Terry Fox Run Volunteers
- Jazz Ensemble
- Yearbook
- Woodworking Club
- Curling Club
- Track & Field
- Choir
- Equity & Diversity
- Hockey
- Badminton
- Strings Ensemble
- Concert Band
- Wellness Club

SPECIALTY PROGRAMS

- Specialist High Skills Major (SHSM) - earn sector specific certifications and prepare for a future in Health in Wellness or Construction
- Cooperative Education - opportunity to learn "on-the-job" while earning credits (available as half or full day for Grades 11 & 12)
- Ontario Youth Apprenticeship Program (OYAP) - begin Level 1 Apprenticeship training and certification in high school
- Dual Credit Programs - college and high school credits can be earned at the same time
Course Calendar 2020-2021

Pathways to Success

**P** Applied

*Learn essential concepts of a subject
*Practical, hands-on application
*Greater teacher direction, instruction & guided learning

**D** Academic

*Learn essential concepts of a subject and explore related materials
*Emphasis on theory and abstract thinking as basis of future learning
*Students are comfortable with independent learning

**L** Locally Developed

*Learn essential concepts of a subject
*Practical, hands-on application
*Build life-skills within subject
*Smaller class sizes for increased teacher support
(recommended for those with specific learning needs)

**O** Open

*Learn concepts and skills designed to prepare for further study in the subject area
*Appropriate for all learners
*Optional courses in Grade 9 offered as "Open" courses
# Clarke High School
## Student Pathway Plan

<table>
<thead>
<tr>
<th>Course Calendar 2020-2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarke High School Home of the RAIDERS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compulsory Courses [18 in total]</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>French</td>
<td>Careers</td>
<td>Civic</td>
<td>English</td>
</tr>
<tr>
<td>Geography</td>
<td>Science</td>
<td>English</td>
<td>History</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Healthy Active Living</td>
<td>Mathematics</td>
<td>Science</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group Courses (at least one from each group)</th>
<th>Group 1: English or French as a Second Language; Native Language; classical or international language; Social Sciences &amp; Humanities; Canadian &amp; World Studies; Guidance &amp; Career Education</th>
<th>Group 2: Health and Physical Education; the Arts; Business Studies; French as a Second Language; Cooperative Education</th>
<th>Group 3: Science (Grade 11 or 12); Technological Education; French as a Second Language; Computer Studies; Cooperative Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ontario Secondary School Diploma (OSSD): 18 Compulsory Credits + 12 Elective Credits + 40 Community Hours + Literacy Test in Grade 10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Courses [12 in Total]</th>
<th>Electives - two courses that meet graduation requirements. For example, students can choose to take: Information and Communication Technology in Business Exploring Technologies Exploring Family Studies Drama Music Visual Arts Healthy Active Living Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students are encouraged to choose electives in new areas, expanding their opportunities and experiences within their education. They should also consider selecting a course from one of the Compulsory Group Requirements that is missing.</td>
<td></td>
</tr>
<tr>
<td>Students should choose electives with two things in mind: post-secondary prerequisites and continuing with investigating new career opportunities.</td>
<td></td>
</tr>
<tr>
<td>University Bound students: 6 Grade 12 U (University) or M (Mixed) – level courses.</td>
<td></td>
</tr>
<tr>
<td>College Bound students: must have grade 11 College English; most courses in grades 11 &amp; 12 in the College or University pathway and any prerequisites for their preferred college program (i.e. MBF 4C1)</td>
<td></td>
</tr>
<tr>
<td>Apprenticeships: Ensure you have the minimum requirements for your trade, including a grade 12 Math credit.</td>
<td></td>
</tr>
<tr>
<td>Community Connections and Leadership Opportunities (You need 40 Hours to graduate!)</td>
<td>You can start accumulating your Community Hours BEFORE high school. It’s recommended to complete a minimum of 20 hours by the end of this year. Intentionally select activities to build your skills. Once you start grade 9, students should join extra-curricular clubs or teams. This helps you to find your place within #Raidernation!</td>
</tr>
<tr>
<td>Aim to have your 40 hours done in grade 10 – but don’t stop there! Continue to be involved with organizations and projects that you are passionate about. Work with others, such as parents, teachers or mentors, to begin to build a resume. Consider looking for part-time work to further build your skills.</td>
<td></td>
</tr>
<tr>
<td>By Grade 11, try to find opportunities to expand interests and skills, through leadership, co-op, volunteer work, extra-curricular activities, or work experience. Continue to build on experiences to support a growing resume and possible scholarship applications down the road.</td>
<td></td>
</tr>
<tr>
<td>Continue to explore leadership opportunities and maintain your commitment to volunteer and extra-curricular activities. This will support resumes, applications to schools and scholarships, as well as portfolios.</td>
<td></td>
</tr>
<tr>
<td>If you’re interested in an apprenticeship or the workplace, explore options for possible employers or journeypersons to support the transition into work.</td>
<td></td>
</tr>
</tbody>
</table>
Grade 9 is the perfect year to build interpersonal skills, practice self-advocacy and develop your independence and resiliency.

Reflect as the year goes on – what has worked well this year? How do you want to continue to learn and grow in grade 10?

Grade 10 is a good year to begin to identify strengths and interests. Develop plans for career pathways as part of the Careers class (GLC 205). Explore the areas you still want to build skills to prepare for next year. Consider your destination - are you planning to proceed to the Workplace? College? University? Make sure your course selections for next year support this.

This is the time to start thinking about and planning for life after high school. Explore options based on your strengths, interests and goals. It’s never too early to start looking at schools, campuses or careers. Meet with a Guidance counsellor to get started.

If you’re thinking of an apprenticeship, consider OYAP for next year. Some programs are competitive, so focusing on your skills and work habits now is helpful.

Expand the networks that will support you when you leave Clarke. Narrow down your options for what you would like to do next year and ensure you know how to apply; seek support; accept offers of admission and begin the next part of your journey! Have a Plan A and a Plan B to support your goals. Know that a good Plan B will help you get to your Plan A.

Are you interested in Construction or Health and Wellness? Consider applying to SHSM!

Book post-secondary tours, attend open houses and information sessions. Attend workshops about OSAP. Sign up for Apprenticeship information sessions and learn about your options.

“Be yourself, work hard in your classes and have fun. High School has been a great experience, but you have to put yourself out there to make it worth it!”

~ Clarke HS Graduate (2019)
# Course Calendar 2020-2021

Course Codes Designations (last letter): ENG1P1 vs ENG1D1, for e.g.

D = Academic  L = Locally Developed  P = Applied  O = Open  
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## The Arts

### Grade 9
- AMU1O  Music
- AVI1O  Visual Arts

### Grade 10
- AMS2O  Strings
- AMU2O  Music
- AVI2O  Visual Arts

### Grade 11
- AMS3M  Strings
- AMU3M  Music
- AVI3M  Visual Arts
- AWA3O  Visual Arts – Crafts

### Grade 12
- AMS4M  Strings
- AMU4M  Music
- AVI4M  Visual Arts

## Business Studies

### Grade 9
- BTT1O  Communication Technology in Business

### Grade 11
- BDI3C*  Entrepreneurship (*Hub e-Learning course at Clarke)
- BMI3C*  Marketing (*Hub e-Learning course at Clarke)

### Grade 12
- BBB4M*  International Business (*Hub e-Learning course at Clarke)
- BOH4M*  Business Leadership (*Hub e-Learning course at Clarke)

## Computer Studies

### Grade 11
- vICS3U*  Introduction to Computer Programming (*e-Learning only)

## Canadian and World Studies

### Grade 9
- CGC1D  Geography of Canada, Academic
- CGC1P  Geography of Canada, Applied

### Grade 10
- CHC2D  Canadian History in the Twentieth Century, Academic
- CHC2L  Canadian History, Locally Developed
- CHC2P  Canadian History in the Twentieth Century, Applied
- CHV2O  Civics (0.5 credit, to be taken with GLC2O Career Studies)

### Grade 11
- vCGG3O*  Travel and Tourism: A Geographic Perspective (*Hub e-Learning only)
- CLU3E  Understanding Canadian Law in Everyday Life, Workplace
- CLU3M  Understanding Canadian Law, Mixed

### Grade 12
- vCGW4U*  World Issues: A Geographic Analysis (*Hub e-Learning only)
- vCHY4C*  World History Since the Fifteenth Century (*Hub e-Learning only)
- vCHY4U*  World History Since the Fifteenth Century (*Hub e-Learning only)
## Course Calendar 2020-2021

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- **C** = College
- **M** = University/College

### Cooperative Education

<table>
<thead>
<tr>
<th>Grade 11 &amp; Grade 12</th>
<th>COP4XD</th>
<th>Two-credit/double period co-op</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COP4X4</td>
<td>Four-credit/All-day co-op</td>
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<tr>
<td></td>
<td>COP4XP</td>
<td>Single-credit peer helping co-op</td>
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<tr>
<td></td>
<td>Gold Collar</td>
<td>Four-credit/All-day co-op (TCJ3C2/TCJ3CD)</td>
</tr>
<tr>
<td></td>
<td>COP4XY</td>
<td>Ontario Youth Apprenticeship Program (OYAP)/Four-credit</td>
</tr>
</tbody>
</table>

### English

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>ENG1D</th>
<th>English, Academic</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENG1L</td>
<td>English, Locally Developed</td>
</tr>
<tr>
<td></td>
<td>ENG1P</td>
<td>English, Applied</td>
</tr>
<tr>
<td>Grade 10</td>
<td>ENG2D</td>
<td>English, Academic</td>
</tr>
<tr>
<td></td>
<td>ENG2L</td>
<td>English, Locally Developed</td>
</tr>
<tr>
<td></td>
<td>ENG2P</td>
<td>English, Applied</td>
</tr>
<tr>
<td>Grade 11</td>
<td>EMS3O</td>
<td>Media Studies, Open</td>
</tr>
<tr>
<td></td>
<td>NBE3C</td>
<td>English: Understanding Contemporary First Nations, Métis and Inuit Voices, College</td>
</tr>
<tr>
<td></td>
<td>NBE3E</td>
<td>English: Understanding Contemporary First Nations, Métis and Inuit Voices, Workplace</td>
</tr>
<tr>
<td></td>
<td>NBE3U</td>
<td>English: Understanding Contemporary First Nations, Métis and Inuit Voices, University</td>
</tr>
<tr>
<td>Grade 12</td>
<td>ENG4C</td>
<td>English, College</td>
</tr>
<tr>
<td></td>
<td>ENG4E</td>
<td>English, Workplace</td>
</tr>
<tr>
<td></td>
<td>ENG4U</td>
<td>English, University</td>
</tr>
<tr>
<td></td>
<td>vEWC4C*</td>
<td>The Writer’s Craft (*Hub e-Learning only), College</td>
</tr>
<tr>
<td></td>
<td>vEWC4U*</td>
<td>The Writer’s Craft (*Hub e-Learning only), University</td>
</tr>
<tr>
<td></td>
<td>OLC4O</td>
<td>Ontario Secondary School Literacy Course</td>
</tr>
</tbody>
</table>

### French as a Second Language

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>FSF1D</th>
<th>Core French, Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FSF1P</td>
<td>Core French, Applied</td>
</tr>
<tr>
<td>Grade 10</td>
<td>FSF2D</td>
<td>Core French, Academic</td>
</tr>
<tr>
<td>Grade 11</td>
<td>FSF3U</td>
<td>Core French, University</td>
</tr>
<tr>
<td>Grade 12</td>
<td>FSF4U</td>
<td>Core French, University</td>
</tr>
</tbody>
</table>

### Guidance and Career Education

| Grade 10 | GLC2O | Career Studies (0.5 credit to be taken with CHV2O Civics) |

### Health and Physical Education

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>PPL1O</th>
<th>Healthy Active Living Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 10</td>
<td>PPL2O</td>
<td>Healthy Active Living Education</td>
</tr>
<tr>
<td>Grade 11</td>
<td>PAF3O</td>
<td>Personal and Fitness Activities</td>
</tr>
</tbody>
</table>
## Course Calendar 2020-2021

<table>
<thead>
<tr>
<th>Course Codes Designations (last letter): ENG1P1 vs ENG1D1, for e.g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D = Academic        L = Locally Developed       P = Applied       O = Open</td>
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<tr>
<td>U = University      E = Workplace            C = College       M = University/College</td>
</tr>
<tr>
<td>PPL3O  Healthy Active Living Education</td>
</tr>
</tbody>
</table>

### Grade 12
- PAF4O  Personal and Fitness Activities
- PPL4O  Healthy Active Living Education

### Mathematics

#### Grade 9
- MAT1L  Math, Locally Developed
- MFM1P  Foundations of Mathematics, Applied
- MPM1D  Principles of Mathematics, Academic

#### Grade 10
- MAT2L  Math, Locally Developed
- MFM2P  Foundations of Mathematics, Applied
- MPM2D  Principles of Mathematics, Academic

#### Grade 11
- MBF3C  Foundations for College Mathematics
- MCF3M  Functions and Applications, University/College
- MCR3U  Functions, University
- MEL4E  Mathematics for Work and Everyday Life, Workplace

#### Grade 12
- MAP4C  Foundations for College Mathematics
- MCV4U  Calculus and Vectors, University
- vMDM4U* Data Management (*e-Learning only), University
- MEL4E  Mathematics for Work and Everyday Life, Workplace
- MHF4U  Advanced Functions, University

### Native Studies

#### Grade 11
- NBV3C  World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada
- NBV3E  World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada

### Science

#### Grade 9
- SNC1D  Science, Academic
- SNC1L  Science, Locally Developed
- SNC1P  Science, Applied

#### Grade 10
- SNC2D  Science, Academic
- SNC2P  Science, Applied

#### Grade 11
- SBI3C  Biology, College
- SBI3U  Biology, University
- SCH3U  Chemistry, University
- SPH3U  Physics, University
- SVN3E  Environmental Science, Workplace

#### Grade 12
- SBI4U  Biology, University
- SCH4C  Chemistry, College
# Course Calendar 2020-2021

Course Codes Designations (last letter): ENG1P1 vs ENG1D1, for e.g.

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCH4U</td>
<td>Chemistry, University</td>
</tr>
<tr>
<td>SPH4U</td>
<td>Physics, University</td>
</tr>
</tbody>
</table>

## Social Sciences and The Humanities

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 9</td>
<td>HIF1O</td>
<td>Individual and Family Living</td>
</tr>
<tr>
<td>Grade 10</td>
<td>HFN2O</td>
<td>Food and Nutrition</td>
</tr>
<tr>
<td>Grade 11</td>
<td>HFC3E</td>
<td>Food and Culture, Workplace</td>
</tr>
<tr>
<td></td>
<td>HFC3M</td>
<td>Food and Culture, University/College</td>
</tr>
<tr>
<td>Grade 11</td>
<td>vHPC3O*</td>
<td>Raising Healthy Children (*Hub e-Learning only)</td>
</tr>
<tr>
<td>Grade 11</td>
<td>vHSP3C*</td>
<td>Introduction to Anthropology, Psychology and Sociology (*Hub e-Learning only)</td>
</tr>
<tr>
<td>Grade 11</td>
<td>vHSP3U*</td>
<td>Introduction to Anthropology, Psychology and Sociology (*Hub e-Learning only)</td>
</tr>
<tr>
<td>Grade 12</td>
<td>vHSB4U*</td>
<td>Challenge and Change in Society (*Hub e-Learning only)</td>
</tr>
</tbody>
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## Technological Education

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 9</td>
<td>TIJ1O</td>
<td>Exploring Technologies - Construction</td>
</tr>
<tr>
<td>Grade 10</td>
<td>TCJ2O</td>
<td>Construction Technology</td>
</tr>
<tr>
<td></td>
<td>TGJ2O</td>
<td>Communications Technology</td>
</tr>
<tr>
<td>Grade 11</td>
<td>TCJ3C2</td>
<td>Construction Technology (double credit)</td>
</tr>
<tr>
<td></td>
<td>TCJ3E1</td>
<td>Construction Technology (single credit)</td>
</tr>
<tr>
<td></td>
<td>TGJ3M</td>
<td>Communications Technology, University/College</td>
</tr>
<tr>
<td>Grade 12</td>
<td>TCJ4C2</td>
<td>Construction Technology (double credit)</td>
</tr>
<tr>
<td></td>
<td>TCJ4E1</td>
<td>Construction Technology (single credit)</td>
</tr>
<tr>
<td></td>
<td>TGG4MK</td>
<td>Print and Graphic Communications (Yearbook), University/College</td>
</tr>
<tr>
<td></td>
<td>TGJ4M</td>
<td>Communications Technology, University/College</td>
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<tr>
<td></td>
<td>TGJ4O</td>
<td>Digital Imagery and Web Design</td>
</tr>
</tbody>
</table>
Course Calendar 2020-2021

All Grade 9 Courses

**AMU1O1  Music**
This course emphasizes the creation and performance of 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. **CREDIT: 1** **TYPE: Open** **GRADE: 9**

**AVI1O1  Visual Arts**
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.
**COURSE NOTE:** Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student. **CREDIT: 1** **TYPE: Open** **GRADE: 9**

**BTT1O1  Introduction to Information Technology**
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. **CREDIT: 1** **TYPE: Open** **GRADE: 9**

**CGC1D1  Geography of Canada, Academic**
This course examines interrelationships within and between Canada’s natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place in which to live. **CREDIT: 1** **TYPE: Academic** **GRADE: 9**

**CGC1P1  Geography of Canada, Applied**
This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they learn about Canada’s distinct and changing character and the natural and human systems and global influences that shape the country. Students will use a variety of geotechnologies and inquiry and communication methods to examine practical geographic questions and communicate their findings. **CREDIT: 1** **TYPE: Applied** **GRADE: 9**
Course Calendar 2020-2021

ENG1D1  English, Academic
This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.
CREDIT: 1  TYPE: Academic  GRADE: 9

ENG1L1  English, Locally Developed
This course prepares students for Grade 10 Locally-developed English (ENG2L). It provides foundational literacy and communication skills to students for success in their daily lives and in the workplace. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students reflect regularly upon their growth in these areas.
CREDIT: 1  TYPE: Locally Developed  GRADE: 9

ENG1P1  English, Applied
This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students’ comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college or workplace preparation courses in Grades 11 and 12.
CREDIT: 1  TYPE: Applied  GRADE: 9

FSF1D1  Core French, 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 develop their skills in listening, speaking, reading, and writing by using language learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.
CREDIT: 1  TYPE: Academic  GRADE: 9

FSF1P1  Core French, Applied
This course provides opportunities for students to communicate and interact in French in structured situations, with a focus on everyday topics, and to apply their knowledge of French in everyday situations. Students will develop listening, speaking, reading, and writing skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.
CREDIT: 1  TYPE: Applied  GRADE: 9
**Course Calendar 2020-2021**

**HIF1O1  Individual and Family Living**
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.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 9

**MAT1L1  Mathematics, Locally Developed**
This course provides students who have experienced significant difficulties in previous Mathematics courses an opportunity to obtain sufficient background and skill development to prepare them for the Grade 10 Locally Developed course or for entry to MFM1P1. Whenever possible, ideas will be presented in a real life context, providing students with the opportunity to explore, organize interpret, and use mathematical models to solve problems. Technology and manipulative materials will be used wherever appropriate. Assessment and evaluation will be done using a wide variety of strategies. This will count as one of the three compulsory mathematics credits.

**CREDIT:** 1  **TYPE:** Locally Developed  **GRADE:** 9

**MFM1P1  Foundations of Mathematics, Applied**
This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Learning through hands-on activities and the use of concrete examples is an important aspect of this course. Successful completion of this course prepares students for Foundations of Mathematics, Grade 10, Applied (MFM2P1)

**CREDIT:** 1  **TYPE:** Applied  **GRADE:** 9

**MPM1D1  Principles of Mathematics, Academic**
This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**CREDIT:** 1  **TYPE:** Academic  **GRADE:** 9

**PPL1O  Healthy Active Living Education**
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.

**COURSE NOTE:** Requirement of light grey t-shirt, shorts/track pants, and running shoes.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 9
Course Calendar 2020-2021

**SNC1D1 Science, 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.
**CREDIT:** 1  **TYPE:** Academic  **GRADE:** 9

**SNC1L1 Science, Locally Developed**
This course prepares students for Grade 10 Locally-developed Science (SNC2L) and/or Grade 11 Environmental Science (SVN3E). This course reinforces and strengthens science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society and the environment. Students explore a range of topics including Science in Daily Life, Properties of Common Materials, Staying Alive: Life Sustaining Processes, and Electrical Circuits.
**CREDIT:** 1  **TYPE:** Locally Developed  **GRADE:** 9

**SNC1P1 Science, 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.
**CREDIT:** 1  **TYPE:** Applied  **GRADE:** 9

**TIJ1O1 Exploring Technology - Construction**
This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields. This course will consist of units in Construction Technology and Communications Technology.
**COURSE NOTE:** As of September 2016, CSA safety footwear is mandatory in all construction classrooms. Safety glasses will also be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.
**CREDIT:** 1  **TYPE:** Open  **GRADE:** 9
Course Calendar 2020-2021

All Grade 10 Courses

AMS2O1  Music - Strings
This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. Instruction provided on the violin, viola, cello and string bass.
CREDIT: 1  TYPE: Open  GRADE: 10  PREREQUISITE: None

AMU2O1  Music
This course emphasizes the creation and performance of 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.
CREDIT: 1  TYPE: Open  GRADE: 10  PREREQUISITE: None

AVI2O1  Visual Arts
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.
COURSE NOTE: Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.
CREDIT: 1  TYPE: Open  GRADE: 10  PREREQUISITE: None

CHC2D1  Canadian History in the Twentieth Century, 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.
CREDIT: 1  TYPE: Academic  GRADE: 10  PREREQUISITE: None

CHC2L1  Canadian History, Locally Developed
This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and 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 forms.
CREDIT: 1  TYPE: Locally Developed  GRADE: 10  PREREQUISITE: None
Course Calendar 2020-2021

**CHC2P1  Canadian History in the Twentieth Century, Applied**
This course explores some of the pivotal events and experiences that have influenced the development of Canada's identity as a nation from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period.

**CREDIT:** 1  **TYPE:** Applied  **GRADE:** 10  **PREREQUISITE:** None

**CHV2O5  Civics, Open**
This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today’s world and of personal interest to them.

**COURSE NOTE:** This is a half-credit course that is taken along with GLC2O5, Career Studies.

**CREDIT:** 0.5  **TYPE:** Open  **GRADE:** 10  **PREREQUISITE:** None

**ENG2D1  English, 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.

**CREDIT:** 1  **TYPE:** Academic  **GRADE:** 10  **PREREQUISITE:** ENG1D1 or ENG1P1

**ENG2L1  English, Locally Developed**
In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course (ENG3E), or in the English Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course (NBE3E). The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students reflect regularly on their growth in these areas.

**CREDIT:** 1  **TYPE:** Locally Developed  **GRADE:** 10  **PREREQUISITE:** ENG1L1

**ENG2P1  English, 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.

**CREDIT:** 1  **TYPE:** Applied  **GRADE:** 10  **PREREQUISITE:** ENG1D1 or ENG1P1
**Course Calendar 2020-2021**

**FSF2D1  Core French**
This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing.

**CREDIT:** 1  **TYPE:** Academic  **GRADE:** 10  **PREREQUISITE:** FSF1D1 or FSF1P1

**GLC2O5  Career Studies**
This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

**COURSE NOTE:** This is a half-credit course that is taken along with CHV2O5, Civics.

**CREDIT:** 0.5  **TYPE:** Open  **GRADE:** 10  **PREREQUISITE:** None

**HFN2O1  Food and Nutrition**
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.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 10  **PREREQUISITE:** None

**MAT2L1  Mathematics, Locally Developed**
This Grade 10 course is designed to allow students to solidify and extend their understanding of, and confidence in using, the concepts developed in MAT1L so that they are well prepared for success in the Mathematics Grade 11 Workplace Preparation course (MEL3E) or the Mathematics Grade 12 Workplace Preparation Course (MEL4E). In the Grade 10 course, students are asked to demonstrate a greater depth of understanding and level of complexity, in contexts that move them from their immediate personal environment to the larger community.

**CREDIT:** 1  **TYPE:** Locally Developed  **GRADE:** 10  **PREREQUISITE:** None

**MFM2P1  Foundations of Mathematics, Applied**
This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**CREDIT:** 1  **TYPE:** Applied  **GRADE:** 10  **PREREQUISITE:** MFM1P1 or MPM1D1
MPM2D1  Principles of Mathematics, Academic
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
CREDIT: 1  TYPE: Academic  GRADE: 10  PREREQUISITE: MPM1D1

PPL2O1  Healthy Active Living Education - Co-Ed
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.
COURSE NOTE: Requirement of light grey t-shirt, shorts/track pants, and running shoes.
CREDIT: 1  TYPE: Open  GRADE: 10  PREREQUISITE: None

SNC2D1  Science, Academic
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.
CREDIT: 1  TYPE: Academic  GRADE: 10  PREREQUISITE: SNC1D1 or SNC1P1

SNC2P1  Science, 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.
CREDIT: 1  TYPE: Applied  GRADE: 10  PREREQUISITE: SNC1D1 or SNC1P1

TCJ2O1  Construction Technology
This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.
COURSE NOTE: As of 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.
CREDIT: 1  TYPE: Open  GRADE: 10  PREREQUISITE: None
**Course Calendar 2020-2021**

**TGJ2O1  Communications Technology**

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 interactive new media 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 will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields. This course is available to grade 9 students.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 10  **PREREQUISITE:** None
All Grade 11 Courses

AMS3M1 Instrumental - Strings
This course emphasizes the creation and performance of 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.
CREDIT: 1  TYPE: University/College  GRADE: 11  PREREQUISITE: AMS2O1 or AMU2O1

AMU3M1 Music
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.
CREDIT: 1  TYPE: University/College  GRADE: 11  PREREQUISITE: AMU1O1 or AMU2O1

AVI3M1 Visual Arts
This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, and information design).
COURSE NOTE: Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.
CREDIT: 1  TYPE: University/College  GRADE: 11  PREREQUISITE: AVI1O1 or AVI2O1

AWA3O1 Visual Arts - Crafts
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.
COURSE NOTE: Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.
CREDIT: 1  TYPE: Open  GRADE: 11  PREREQUISITE: None

vBDI3C* Entrepreneurship: The Venture (*Hub e-Learning at Clarke)*
This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.
CREDIT: 1  TYPE: College  GRADE: 11  PREREQUISITE: None
Course Calendar 2020-2021

vBMI3C* Marketing: Goods, Services, Events (*Hub e-Learning at Clarke)
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.
CREDIT: 1   TYPE: College   GRADE: 11   PREREQUISITE: None

vCGG3O* Travel and Tourism (*Hub e-Learning)
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.
CREDIT: 1   TYPE: Open   GRADE: 11   PREREQUISITE: CGC1D or CGC1P

CLU3E1 Understanding Canadian Law in Everyday Life
This course gives students practical information about legal issues that directly affect their lives. Students will examine the need for laws in society, the roots of Canada’s legal system, the rights and freedoms that people in Canada enjoy, and the basic elements of criminal law and dispute resolution. Through experiences such as mock trials, debates, and case studies, students will apply inquiry and communication skills to develop and express opinions on legal topics of interest to them.
CREDIT: 1   TYPE: Workplace   GRADE: 11   PREREQUISITE: Grade 10 History

CLU3M1 Understanding Canadian Law
This course explores Canadian law with a focus on legal issues that are relevant to people’s everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada’s legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.
COURSE NOTE: Strong reading and writing skills are necessary for this course.
CREDIT: 1   TYPE: University/College   GRADE: 11   PREREQUISITE: CHC2D1 or CHC2P1

*CO-OP: See separate section at the end of the course calendar for information on Co-operative Education (Co-op) programs available to grade 11 and grade 12 students.

EMS3O1 Media Studies
This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.
CREDIT: 1   TYPE: Open   GRADE: 11   PREREQUISITE: ENG2D or ENG2P
FSF3U1  Core French, University
This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.
CREDIT: 1  TYPE: University  GRADE: 11  PREREQUISITE: FSF2D1

HFC3E1  Food and Culture, Workplace
This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will demonstrate the ability to cook with ingredients and equipment from a range of cultures, describe food-related etiquette in a variety of countries and cultures, and explore ways in which Canadian food choices and traditions have been influenced by other cultures. Students will have opportunities to develop practical skills and apply research skills as they investigate foods and food practices from around the world.
CREDIT: 1  TYPE: Workplace  GRADE: 11  PREREQUISITE: None

HFC3M1  Food and Culture, University/College
This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will explore the origins of and developments in diverse food traditions. They will demonstrate the ability to cook with ingredients and equipment from a variety of cultures, compare food-related etiquette in many countries and cultures, and explain how Canadian food choices and traditions have been influenced by other cultures. Students will develop practical skills and apply social science research methods while investigating foods and food practices from around the world.
CREDIT: 1  TYPE: University / College Preparation  Grade:11  Prerequisite: None

vHPC3O1*  Raising Healthy Children (*Hub e-learning only)
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.
CREDIT: 1  TYPE: Open  GRADE: 11  PREREQUISITE: None

vHSP3C1*  Introduction to Anthropology, Psychology & Sociology (*Hub e-learning only)
This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.
CREDIT: 1  TYPE: College  GRADE: 11  PREREQUISITE: None
vHSP3U1*  Introduction to Anthropology, Psychology & Sociology (*Hub e-learning only)
This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science research, and to become familiar with current thinking on a range of issues within the three disciplines.
CREDIT: 1  TYPE: University  GRADE: 11  PREREQUISITE: ENG2D1 or CHC2D1

vICS3U*  Introduction to Computer Programming (*e-Learning only)
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.
CREDIT: 1  TYPE: University  GRADE: 11  PREREQUISITE: None

MBF3C1  Foundations for College Mathematics
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.
CREDIT: 1  TYPE: College  GRADE: 11  PREREQUISITE: MFM2P1 or MPM2D1

MCF3M1  Functions and Applications, 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 applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
COURSE NOTE: This course can be used as a pre-requisite for MDM4U1, MCT4C1 or MAP4C1.
CREDIT: 1  TYPE: University/College  GRADE: 11  PREREQUISITE: MPM2D1 or MFM2P1

MCR3U1  Functions, 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; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
CREDIT: 1  TYPE: University  GRADE: 11  PREREQUISITE: MPM2D1
**Course Calendar 2020-2021**

**MEL4E1  Mathematics for Work and Everyday Life, 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, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**COURSE NOTE:** This course is alternated every-other year with MEL3E. These two math courses can be taken in either order.

**CREDIT:** 1  TYPE: Workplace  **GRADE:** 12  **PREREQUISITE:** Grade 10 Math, any level

**NBE3C1  English, Understanding Contemporary First Nations, Métis and Inuit Voices, College**
This course explores themes, forms, and styles of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also looks at the perspectives and influences of texts that relate to those cultures. In order to understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will study the use of text forms by Indigenous authors/creators from other periods in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English college preparation course.

**CREDIT:** 1  **TYPE:** College  **GRADE:** 11  **PREREQUISITE:** ENG2P1 or ENG2D1

**NBE3E1  English, Understanding Contemporary First Nations, Métis and Inuit Voices, Workplace**
This course explores themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media texts emerging from First Nations, Métis, and Inuit cultures in Canada, as well as some texts that relate to those cultures. In order to better understand contemporary texts, students will explore connections between traditional and contemporary text forms and cultural and community aspects of identity, relationships, and self-determination, sovereignty or self-governance. Students will also create oral, written, and media texts focusing on the development of literacy, communication, and critical thinking skills necessary for success in the workplace and daily life. The course is intended to prepare students for the compulsory Grade 12 English workplace preparation course.

**CREDIT:** 1  **TYPE:** Workplace  **GRADE:** 11  **PREREQUISITE:** ENG2P1 or ENG2L1

**NBE3U1  English, Understanding Contemporary First Nations, Métis and Inuit Voices, 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.

**CREDIT:** 1  **TYPE:** University  **GRADE:** 11  **PREREQUISITE:** ENG2D1
Course Calendar 2020-2021

**NBV3C1  World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada, College**
This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada and the political, economic, cultural and social challenges facing Aboriginal individuals and communities from various regions and cultures. By examining their own beliefs, values and assumptions, the worldviews of others and factors that influence world views, students will appreciate how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.

**CREDIT:** 1  **TYPE:** College  **GRADE:** 11  **PREREQUISITE:** CHC2P1

**NBV3E1  World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada, Workplace**
This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada. Students will examine issues of identity facing Aboriginal individuals and communities in connection to changing relationships with the land, nature, one another and Canada. By examining their own worldview and investigating factors that influence perspectives over time, students will develop their understanding of how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.

**CREDIT:** 1  **TYPE:** Workplace  **GRADE:** 11  **PREREQUISITE:** ENG2L or CHC2L1

**PAF3O1  Personal and Fitness Activities**
This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students’ interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills, and will be given opportunities to practice goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, and personal safety. Improved physical fitness through aerobic and weight training is the main objective of this course.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 11  **PREREQUISITE:** None

**PPL3O1  Healthy Active Living Education**
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.

**COURSE NOTE:** Requirement of light grey t-shirt, shorts/track pants, and running shoes. Clarke Phys Ed t-shirt available for $7.00.

**CREDIT:** 1  **TYPE:** Open  **GRADE:** 11  **PREREQUISITE:** None

**SBI3C1  Biology, 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. **COURSE NOTE:** This course has been cycled (offered every-other year) with SCH4C in the past. Students requiring senior sciences are encouraged to take both courses in the same year while their availability is assured.

**CREDIT:** 1  **TYPE:** College  **GRADE:** 11  **PREREQUISITE:** SNC2D1 or SNC2P
**Course Calendar 2020-2021**

**SBI3U1  Biology, 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 under study, and helps students refine skills related to scientific investigation.

**CREDIT:** 1  
**TYPE:** University  
**GRADE:** 11  
**PREREQUISITE:** SNC2D1

**SCH3U1  Chemistry, 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.

**CREDIT:** 1  
**TYPE:** University  
**GRADE:** 11  
**PREREQUISITE:** SNC2D1

**SPH3U1  Physics, 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.

**CREDIT:** 1  
**TYPE:** University  
**GRADE:** 11  
**PREREQUISITE:** SNC2D1

**SVN3E1  Environmental Science, 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.

**CREDIT:** 1  
**TYPE:** Workplace  
**GRADE:** 11  
**PREREQUISITE:** SNC1P1 or SNC1L1

**TCJ3C2  Construction Technology (Double Credit)**
This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore career opportunities in the field.

**COURSE NOTE:** As of September 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials. Recommended Background: TCJ2O1. This course is a **double period**.

**CREDIT:** 2  
**TYPE:** College  
**GRADE:** 11  
**PREREQUISITE:** None
**Course Calendar 2020-2021**

**TCJ3E1  Construction Technology (Single Credit)**
This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore postsecondary and career opportunities in the field. **COURSE NOTE:** As of September 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.

**CREDIT:** 1  **TYPE:** Workplace  **GRADE:** 11  **PREREQUISITE:** None

**TGJ3M1  Communications Technology, 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 will explore college and university programs and career opportunities in the various communications technology fields.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 11  **PREREQUISITE:** None
All Grade 12 Courses

**AMS4M1  Music - Strings**
This course emphasizes the creation and performance of 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.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 12  **PREREQUISITE:** AMS3M1 or AMU3M1

**AMU4M1  Music**
This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 12  **PREREQUISITE:** AMU3M1

**AVI4M1  Visual Arts**
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. **COURSE NOTE:** Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 12  **PREREQUISITE:** AVI3M1

**vBBB4M*  Introduction to International Business (*Hub e-Learning at Clarke)**
This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 12  **PREREQUISITE:** None

**vBOH4M*  Business Leadership: Management Fundamentals (*Hub e-Learning at Clarke)**
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 are also emphasized.

**CREDIT:** 1  **TYPE:** University/College  **GRADE:** 12  **PREREQUISITE:** None
Course Calendar 2020-2021

vCGW4U1*  World Issues: A Geographic Analysis (*Hub e-Learning only)
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.

CREDIT: 1  TYPE: University  GRADE: 12
PREREQUISITE: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

vCHY4C1*  World History since the Fifteenth Century (*Hub e-Learning only)
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.

CREDIT: 1  TYPE: College  GRADE: 12
PREREQUISITE: Any university, college, or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

vCHY4U1*  World History since the Fifteenth Century (*Hub e-Learning only)
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.

CREDIT: 1  TYPE: University  GRADE: 12
PREREQUISITE: Any university or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

*CO-OP: See separate section at the end of the course calendar for information on Cooperative Education (Co-op) programs available to grade 11 and grade 12 students.

ENG4C1  English, 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.

CREDIT: 1  TYPE: College  GRADE: 12  PREREQUISITE: ENG3C1 or ENG3U1
Course Calendar 2020-2021

ENG4E1  English, 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.

CREDIT: 1  TYPE: Workplace  GRADE: 12  PREREQUISITE: ENG3E1

ENG4U1  English, 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.

CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: ENG3U1 or NBE3U

vEWC4C1*  The Writer's Craft, College (*Hub e-Learning only)
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.

CREDIT: 1  TYPE: College  GRADE: 12  PREREQUISITE: ENG3C1 or ENG3U or NBE3C or NBE3U

vEWC4U1*  The Writer's Craft, University (*Hub e-Learning only)
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.

CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: ENG3U1 or NBE3U

FSF4U1  Core French
This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: FSF3U1
vHSB4U1*  Challenge and Change in Society (*Hub e-Learning only)
This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.
CREDIT: 1  TYPE: University  GRADE: 12
PREREQUISITE: Any university or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

MAP4C1  Foundations for College Mathematics
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; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.
CREDIT: 1  TYPE: College  GRADE: 12  PREREQUISITE: MBF3C1 or MCR3U1 or MCF3M1

MCV4U1  Calculus and Vectors, 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, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.
CREDIT: 1  TYPE: University  GRADE: 12
COREQUISITES: If you take this course, you must also take MHF4U1 - Advanced Functions, University

vMDM4U1*  Data Management, University (*e-Learning only)
This course broadens students’ understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.
CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: MCR3U1 or MCF3M1
Course Calendar 2020-2021

MEL4E1  Mathematics for Work and Everyday Life, 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, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
COURSE NOTE: This course is alternated every-other year with MEL3E. These two math courses can be taken in either order.
CREDIT: 1
TYPE: Workplace  GRADE: 12  PREREQUISITE: Grade 10 Math, any level

MHF4U1  Advanced Functions, 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.
CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: MCR3U1 or MCT4C1

OLC4O  Ontario Secondary School Literacy Course
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.
CREDIT: 1  TYPE: Open  GRADE: 12

PAF4O1  Personal and Fitness Activities
This course focuses on the development of a healthy lifestyle with an emphasis on physical fitness. Students will develop individual fitness plans to improve or to maintain a high level of fitness. Regular work-outs will include an emphasis on weight training and cardiovascular training. This course will also focus on designing training programs for specific sport development - preseason, season and post-season training. In addition, students will be given opportunities to refine their decision-making, conflict resolution, and interpersonal skills, with a view of enhancing their mental health and their relationships with others.
CREDIT: 1  TYPE: Open  GRADE: 12  PREREQUISITE: None
Course Calendar 2020-2021

PPL4O1  Healthy Active Living Education
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.

COURSE NOTE: Requirement of light grey t-shirt, shorts/track pants, and running shoes.
Clarke Phys Ed t-shirt available for $7.00.
CREDIT: 1  TYPE: Open  GRADE: 12  PREREQUISITE: None

SBI4U1  Biology, 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.
CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: SBI3U1

SCH4C1  Chemistry, 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.
COURSE NOTE: This course has been cycled (offered every-other year) with SBI3C in the past. Students requiring senior sciences are encouraged to take both courses in the same year while their availability is assured.
CREDIT: 1  TYPE: College  GRADE: 12  PREREQUISITE: SNC2D1 or SNC2P1

SCH4U1  Chemistry, 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.
CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: SCH3U1

SPH4U1  Physics, 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 related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.
CREDIT: 1  TYPE: University  GRADE: 12  PREREQUISITE: SPH3U1
TCJ4C2  Construction Technology
This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and will explore career opportunities in the field. Students taking this course can also earn a dual credit with Fleming College: MECH255 - Introduction to Mechanical Trades.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.

CREDIT: 2  TYPE: College  GRADE: 12  PREREQUISITE: TCJ3C1

TCJ4E1  Construction Technology
This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret construction 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 construction. Students will also expand their awareness of environmental and societal issues related to construction technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.

CREDIT: 1  TYPE: Workplace  GRADE: 12  PREREQUISITE: TCJ3E1

TGG4MK  Communications Technology: Print and Graphic Communications
This course further enhances communications systems, design and production processes in the areas of graphic communications. Students learn the guidelines of good journalism and the skills necessary for brainstorming, researching, reporting and publishing several types of stories: news, features, sports etc. Students will learn yearbook organization, design, photography, copy writing, page designing, and photo editing, proofreading and meeting deadlines. Creativity, responsibility, and a strong English background are recommended. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. Students are responsible for the design and publication of the Clarke High School Invictus Yearbook. COURSE NOTE: This course runs semester 2. Students must be able to commit to working on the Yearbook in an extra-curricular capacity during semester 1.

CREDIT: 1  TYPE: University/College  GRADE: 12  PREREQUISITE: TGG3M1
Course Calendar 2020-2021

TGJ4M1  Communications Technology
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.
CREDIT: 1  TYPE: University/College  GRADE: 12  PREREQUISITE: TGJ3M1

TGJ4O1  Communications Technology: Digital Imagery and Web Design
This course enables students to develop knowledge and skills in the areas of photography, digital imaging, animation, 3D modelling, and web design. 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 photo galleries, digital images, animations, 3D models, and websites. Students will also expand their awareness of environmental and societal issues related to communications technology, and will explore postsecondary education, training, and career opportunities.
COURSE NOTE: It would be an advantage for students to have access to a digital camera for their use. Cameras will be available in the class.
CREDIT: 1  TYPE: Open  GRADE: 12  PREREQUISITE: None

Cooperative Education (CO-OP) and Experiential Learning
Cooperative Education involves classroom components comprising pre-placement activities at the beginning of the course, and integration activities, which run at various times throughout the semester. The placement component occurs outside of the home school in a work environment where the students have not had previous experience. Students earn the cooperative education credit by integrating planned learning experiences at the work placement aligned with a related in-school course. Evaluation is linked to the Ministry of Education curriculum expectations of the related course. Coop work placements provide students with challenging opportunities to apply and extend the knowledge and skills acquired in the related course. Coop students are also expected to demonstrate achievement of placement expectations that reflect current workplace practices and standards.
Prerequisite: GLC2O
COP4XD  CO-OP 2-credit course
COP4X4  CO-OP 4-credit course

Coop placements may be half-day (2 credits) or full-day (four credits).
Students may do coop more than once.
TYPE: Open  GRADE: 11 or 12

COP4XP  CO-OP - Peer Helping
This single credit co-op is a Peer Helping placement in the home school. In keeping with Ministry of Education’s Cooperative Education policy for the placement of coop students, students will be allowed to participate only once in a Peer Helping co-op placement.
CREDIT: 1  TYPE: Open  GRADE: 11 or 12
COP4XY  OYAP – Ontario Youth Apprenticeship Program - 4-credit course
Available to Grade 12 students in their final semester of high school. Apprenticeship opportunities vary from year-to-year and are limited in number. Students must undergo a competitive application and interview process to be accepted into OYAP. Past OYAP placements have included the traditional skilled trades - Electrical Auto Mechanics, Carpentry and Welding for example - and more recently, have expanded to include Hairstyling, Cook and Early Childhood Education, among others. Please speak to the school’s Coop Department for more information on apprenticeship opportunities available each year.
CREDIT: 4  TYPE: Open  GRADE: 12

Gold Collar - TCJ3C2/TCJ3CD
This program 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 while working on an actual construction site. Students will learn about building planning & design; creating and interpreting working drawings and sections; and will learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore career opportunities in the field. Students completing the Gold Collar program will earn TCJ3C2 (Construction technology) and TCJ3CD (Coop) for a total of four credits. Gold Collar is a competitive program, and students will have to undergo an application and interview process.

E-Learning
Several Ministry of Education courses are offered in an on-line format (e-Learning). Students who require a course that is not offered in school, or who are unable to take an in-school course due to a time-tableing conflict may request an e-Learning course. The majority of e-Learning courses are grade 11 and grade 12 courses, and are recommended for students who have strong independent learning habits, self-discipline and good organizational skills. E-Learning courses are scheduled into the student’s timetable, and students are required to log in daily, Mondays to Fridays. Students taking e-Learning courses are expected to work independently in a quiet location while at school, though students have the flexibility to complete their daily on-line work at home. For a complete list of courses available on-line, visit www.elearningstudents.ca . For more information or to discuss whether e-Learning is right for you, speak to your guidance counsellor.

The e-Learning courses contained in the Clarke Course Calendar are Hub school courses, except for the vICS3U and the vMDM4U. Clarke High School is the Hub school for some business courses, and as such, has a room dedicated for that purpose. The Hub teacher for the Business courses works out of Clarke High School. Although students registered at Hub schools, such as Clarke, are given priority for Hub courses, registration is not guaranteed, and therefore students are encouraged to make their selections early.
**Course Calendar 2020-2021**

**Specialized High Skills Major (SHSM)**
SHSM is a ministry-approved specialized program that allows students to focus their learning on a specific career sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD).

**SHSM Sectors**
Clarke High School is proud to offer programs in two sectors:
Construction and Health & Wellness.

**Benefits to Students**
SHSM assists students in their transition from secondary school to apprenticeship training, college, university, or the workplace:
- Successful completion of an SHSM is indicated on the student’s Ontario Secondary School Diploma (OSSD) by a Red Seal.
- Successful completion of an SHSM is indicated on the student’s Ontario Student Transcript (OST), where it may be seen by any post-secondary institution, employer or training organization.
- Students receive an SHSM Record that documents their achievement of the required components, including sector-related certifications earned and or training courses completed. Students gain valuable experience and certifications, which increases confidence in their ability to succeed and see the connections between their studies, the world beyond high school and future careers.
- Students have the opportunity to explore, identify and refine career goals and make informed decisions related to post-secondary education or training and next steps towards a career.

**Bundled Credits**
A SHSM Program must contain a bundle of 8-10 credits including:
- Four major credits in the subjects relating to their chosen SHSM that provide sector specific knowledge.
- Two to four other required credits from the Ontario curriculum, in which some expectations are met through learning activities related to the sector.
- Two credits in Cooperative Education related to the major credits.

**Sector-Recognized Certifications All SHSM students will obtain certifications in:**
- WHMIS (Workplace Hazardous Materials Information System)
- CPR (Cardio-Pulmonary Resuscitation)
- Standard First Aid

In addition, students will receive at least three more sector-specific certifications, which include:
- Fall protection for Construction student
- Infection Control for Health and Wellness students

**“Reach Ahead” Experiences**
“Reach Ahead” experiences are connected with students’ chosen post-secondary pathways. These experiences could include visits to sector-related industries and/or businesses, training facilities, skills competitions, colleges, universities and dual credit programs.
Course Calendar 2020-2021

How to Plan For SHSM

Grade 10
- When choosing your courses for grade 11, pick at least one SHSM major course, fill out a separate SHSM application.
  *SHSM students should try to complete the double Coop requirement in grade 11.

Grade 11
SHSM subjects should already be on your Grade 11 timetable. At Course option time:
- Choose your remaining major credits, your “other” credits as needed, and Coop for Grade 12 if not already completed.

Grade 12
- Complete SHSM course requirements, remaining certifications and continue to participate in reach Ahead experiences.
Ontario Youth Apprenticeship Program (OYAP)

The Ontario Youth Apprenticeship Program allows Ontario secondary school students to fast track into a skilled trade of their choice. There are two types of OYAP programs available to students:

- The first option is a unique combination of community college trades training and a high school Cooperative Education Program. Students are registered as apprentices and attend college one to three days a week to earn their Basic Level 1 of the trade qualifications. Students spend the remainder of the week at work placements earning two to three high school credits while accumulating hours toward their apprenticeship requirements. This full-day program usually takes place during the second semester.
- Positions in this program are only available to students in Grade 12 who are eligible to graduate.
- Students who return for a fifth year will only be allowed to participate with special permission.
- Student involvement hours must be completed and documented at the time of indenturing.
- Candidates demonstrating success in the recommended Math, Science, English and Technological Studies will be interviewed by a panel from both education and industry to gain entrance into the program.
- Successful candidates will require registration in a two or three credit Cooperative Education Program and two Dual Credits during second semester. A related Cooperative Education placement during Grade 11 is highly recommended.
- A transportation allowance is available to subsidize the cost of attending the College Program.
- The cost of College training is absorbed by the Ministry of Training Colleges and Universities.

Note: OYAP Level 1 program students will receive Dual Credits along with their Cooperative Education credits. For further information about Dual Credits, speak to a Guidance Counsellor at your school.

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<th>Tentative Accelerated Programs for February 2020</th>
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<td>Program</td>
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<td>Training Delivery Agent</td>
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<td>Auto Service Tech</td>
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<td>Welding</td>
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<td>Hairstylist</td>
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A second form of OYAP participation is available to any Cooperative Education student, with a placement in an Apprenticeable Trade, who is at least 16 years of age and has 16 credits. These OYAP students do not complete their trade’s Basic Level 1 course at a Community College. Instead, Student Learning Plans are developed based on training standards for their trade.

- Students can be registered as apprentices and apply any competencies achieved through their Cooperative Education placement toward their apprenticeship.
- An OYAP student in this program can participate in any of more than 150 recognized trades and earn potentially between two and four secondary credits.

For more information, contact your Guidance or Cooperative Education Teacher, or visit [www.kprschoools.ca](http://www.kprschoools.ca).