



# MENTOR COLLEGE HIGH SCHOOL SUMMER PROGRAMME

June 29, 2020 - July 31, 2020



*"I knew my marks had to get better and they did! My teacher was very helpful and took the time before and after class to help me out."*

*"While there was a lot of material to cover, all new concepts and ideas were explained thoroughly to ensure maximum understanding...and the teachers always made themselves available for extra help."*

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## About the Mentor College High School Summer Programme

The Mentor College High School Summer Programme offers a full range of high school level courses. Small class sizes, personal attention, individualized programming, accountability, and a commitment to excellence are essential components of the summer school courses we offer.

Monday, June 29 - Friday, July 31

9:00 AM - 1:40 PM

Course Fee: \$1525

Daily dropoff is between 8:30 AM and 8:50 AM. Pickup is from 1:45 PM to 2:00 PM. Please note that **Wednesday, July 1** (Canada Day) is a holiday and the school is closed. The final exam day is Friday, July 31.

## Course Descriptions: Grades 9 to 12

### Grade 9 French - FSF1P (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. **Prerequisite: Minimum of 600 hours of French instruction, or equivalent** **NOTE:** FSF1P or FSF1D each serve as a prerequisite for FSF2D

### Grade 9 Core French - FSF1D (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. **Prerequisite : Minimum of 600 hours of French instruction, or equivalent** **NOTE:** FSF1P or FSF1D each serve as a prerequisite for FSF2D

### Grade 9 Principles of Mathematics - MPM1D (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.

**Prerequisite: None**

### Grade 9, Information and Communication Technology in Business - BTT10 (Open)

This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

**Prerequisite: None**

### **Grade 10 Principles of Mathematics - MPM2D (Academic)**

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the 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. **Prerequisite: Grade 9 Mathematics, Academic or Applied or Grade 9 Mathematics Transfer, Applied to Academic**

### **Grade 10 Canadian History Since World War I - CHC2D (Academic)**

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian society during this period. Students will use critical thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view. **Prerequisite: None**

### **Grade 10 Science - SNC2D (Academic)**

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and in the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further 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 change; and the interaction of light and matter. **Prerequisite: Grade 9 Science, Academic or Applied**

### **Grade 11 English - ENG3U (University Preparation)**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral written, and media texts in a variety of forms. 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 and college preparation course. **Prerequisite: Grade 10 English, Academic**

### **Grade 11 Functions and Relations - MCR3U (University Preparation)**

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. **Prerequisite: Grade 10 Mathematics, Academic**

### **Grade 11, Functions and Applications - MCF3M (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. **Prerequisite: Principles of Mathematics, Grade 10, Academic or Foundations of Mathematics, Grade 10, Applied. (This course is one prerequisite for Mathematics of Data Management, MDM4U)**

### **Grade 11 Chemistry - SCH3U (University Preparation)**

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. **Prerequisite: Grade 10 Science, Academic**

### **Grade 12 English - ENG4U (University Preparation)**

This course emphasizes the consolidation of the literacy, communication, and critical thinking skills necessary for success in academic and daily life. Students will analyze 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 and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. **Prerequisite: Grade 11 English, University Preparation.** *ENG4U includes a speech component with a value of 5% of the final grade. Successful completion of both the speech component and the course satisfies the student's speech requirement for the 2020-2021 academic year. **SPEECH DAY: Friday July 24, 2020 - 12:30 PM***

### **Grade 12 Advanced Functions - MHF4U (University Preparation)**

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 for students wishing to consolidate their understanding of mathematics before proceeding to a variety of university programs. **Prerequisite: Functions, Grade 11, University Preparation or Mathematics for College Technology, Grade 12, College Preparation**

### **Grade 12 Mathematics of Data Management - MDM4U (University Preparation)**

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. **Prerequisite: Functions, Grade 11, University Preparation, or Functions and Applications, Grade 11, University/College Preparation**

**Other High School credit courses are available with sufficient enrolment (8 students). Please indicate your preference on the course registration form (e.g. Grade 9 Science). All Mentor College rules and regulations apply to students registered in the High School Summer Programme. Final examinations (mandatory) are written on the last day. All textbooks are provided by the school.**