



GRADE 11 PROGRAM

The Element High School is a Montessori High School that meets and exceeds the Ontario curriculum. A few distinguishing features of our program are:

- Awareness and incorporation of the developmental needs of adolescents in our programming.
- Small students to teacher ratio.
- Collaborative working environment.
- Faculty advisors who guide individual goal setting and accountability.
- Independent Work Periods (IWP) that enable students to manage their own time and pursue work that interests them with teacher support.
- Authentic World of Learning (AWOL) that immerses students in the real-world.
- Urban Adventure Trip.
- Development of essential skills that help students understand themselves as learners.
- Community service.
- Interaction with the real world and the city as our campus.
- Leadership opportunities through multi-age groupings.
- Learning commons work environment.
- Choice and creativity are incorporated into students' daily work and projects
- Key lessons delivered by experienced faculty.
- Various electives taught by professionals who work in their respective fields.
- Digital and Financial Literacy.
- Meaningful and timely student assessment.
- Preparation for adult life.

The Element Diploma includes the following Grade 11 Electives:

Students can choose 6 out of 9 Electives:

Biology, University Level (SBI3U)

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.

Chemistry, University Level (SCH3U)

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.

Physics, University Level (SPH3U)

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.

Introduction to Anthropology, Psychology and Sociology, University Level (HSP3U)

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.

World History to the End of the Fifteenth Century, University/College Level (CHW3M)

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

Food and Culture, University/College Level (HFC3M)

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.

Core French (FSF3U)

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.

Media Arts, Grade 11, University/College (ASM3M)

This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies, tools, and techniques such as new media, computer animation, and web environments. Students will explore the evolution of media arts as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyse the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity, culture, and values.

Entrepreneurship: The Enterprising Person, Open (BDP3O)

This course examines the importance of enterprising employees in today's changing business environment. Students will learn about the skills and attributes of enterprising employees, the distinguishing features of their work environments, and the challenges and rewards of becoming an enterprising person. Students will also have an opportunity to demonstrate and develop enterprising skills by planning and organizing a school or community event.



The Element Diploma includes the following Grade 11 Compulsory Courses:

English, University Level (ENG3U)

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.

Students can choose between the 2:

Functions, University Level (MCR3U)

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

Functions and Applications, Grade 11, University/College (MCF3M)

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.

Online Courses

If students wish to take an elective that we are not offering, they may apply to take an online course. They must demonstrate their ability to handle the independence required, based on the following information from the previous two reporting cycles:

1. Reason for wanting to take the course.
2. Their number of days late.
3. Their number of late assignments.
4. Their learning skills assessments for their previous two report cards.

The Element High School staff are available to support students with questions. Parents will have to cover the cost of the elective course. No Element tuition discount will be given. Students can take no more than 2 online credits as part of their Element Diploma.

Winterim

The Element High School's Winterim Trip gives students an international community service opportunity to experience different cultures and conduct their own community service project. The Winterim planning takes place during their Grade 11 year with the trip taking place in the Fall of Grade 12.

Working in partnership with Matt Howell (formerly of MHO Adventures who have guided our Odyssey Trip for the past 9 years) and Evolve Tours, students have the unique opportunity for international community service travel. With the support of an experienced student travel company, students are provided a grassroots opportunity that immerses them in the planning and execution of their Winterim. Tuition will cover \$1,500 of the Winterim. Each student is expected to fundraise a minimum of \$500. Parents would be required to cover the remaining costs (up to \$2,500).



AWOL (Authentic World of Learning)

The AWOL Program at The Element High School provides students with real-world learning opportunities on Wednesday afternoons. For Grade 11 students, their AWOL time would be broken up into 3 sections and will provide them with the experience of planning and executing an international community service trip as well as financial literacy through fundraising and individual employment. The third component of the AWOL program will enable our students to do a placement at a local business of their choosing or a community service project that has personal meaning to them.

While AWOL in Grades 9 and 10 is done as a group, in Grade 11 our students have the opportunity to follow their individual interests for their placements.

Section 1 - Planning for the Winterim

- Research about the country and culture
- Research about the issue and needs they have
- Cultural sensitivity
- Connection with the locals
- Logistical planning along with the company we use
- Community service projects: the good and the bad

Section 2 – Fundraising

- Students are expected to fundraise up to a certain level for the Winterim.
- This can be done in two ways:
 - Organization of group fundraising activities – art shows, silent auctions etc.
 - Individual fund raising through part-time employment.

Section 3 – Community Connected Experiential Learning

With support from the The Element faculty, the students undertake a community service project or internship here in Ottawa, with the opportunity to pursue a project or experience that is personally meaningful and immerses them in the adult world.

The students would be required to create a mandatory statement of experience at the end of the year about their AWOL experiences.



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