



## Ontario eSecondary School Course Outline 2026-2027

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Ministry of Education Course Title: Gr. 11 Physics, University Preparation</b>                                                                                                                                                                                                                                                                       |                                                          |
| <b>Ministry Course Code: SPH3U</b>                                                                                                                                                                                                                                                                                                                      |                                                          |
| <b>Course Type: University Preparation</b>                                                                                                                                                                                                                                                                                                              |                                                          |
| <b>Grade: 11</b>                                                                                                                                                                                                                                                                                                                                        |                                                          |
| <b>Credit Value: 1.0</b>                                                                                                                                                                                                                                                                                                                                |                                                          |
| <b>Prerequisite(s): Science, Grade 10, Academic (SNC2D)</b>                                                                                                                                                                                                                                                                                             |                                                          |
| <b>Department: Science</b>                                                                                                                                                                                                                                                                                                                              |                                                          |
| <b>Course developed by:<br/>Andrew Lee</b>                                                                                                                                                                                                                                                                                                              | <b>Created: June 1, 2020<br/>Revised: August 1, 2026</b> |
| <b>Length:<br/>One Semester</b>                                                                                                                                                                                                                                                                                                                         | <b>Hours:<br/>110</b>                                    |
| This course has been developed based on the following Ministry documents: <ol style="list-style-type: none"> <li>1. <i>Science, The Ontario Curriculum, Grades 11 and 12</i>, 2008, (revised)</li> <li>2. <i>Growing Success: Assessment, Evaluation, and Reporting in Ontario Schools</i> (2010)</li> <li>3. <i>Learning for All</i> (2013)</li> </ol> |                                                          |

## COURSE DESCRIPTION/RATIONALE

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

**Prerequisite(s):** Science, Grade 10, Academic (SNC2D)

## OVERALL CURRICULUM EXPECTATIONS

### Scientific Investigation Skills and Career Exploration

- demonstrate scientific investigation skills (related to both inquiry and research) in the four areas of skills (initiating and planning, performing and recording, analysing and interpreting, and communicating);
- identify and describe careers related to the fields of science under study, and describe the contributions of scientists, including Canadians, to those fields.

### Kinematics

By the end of the course, students will:

- analyse technologies that apply concepts related to kinematics, and assess the technologies' social and environmental impact;
- investigate, in qualitative and quantitative terms, uniform and non-uniform linear motion, and solve related problems;
- demonstrate an understanding of uniform and non-uniform linear motion, in one and two dimensions.

### Forces

By the end of the course, students will:

- analyse and propose improvements to technologies that apply concepts related to dynamics and Newton's laws, and assess the technologies' social and environmental impact;
- investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems;
- demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension.

### Work & Energy and Society

By the end of the course, students will:

- analyse technologies that apply principles of and concepts related to energy transformations, and assess the technologies' social and environmental impact;
- investigate energy transformations and the law of conservation of energy, and solve related problems;
- demonstrate an understanding of work, efficiency, power, gravitational potential energy, kinetic energy, nuclear energy, and thermal energy and its transfer (heat).

## Waves & Sound

By the end of the course, students will:

- analyse how mechanical waves and sound affect technology, structures, society, and the environment, and assess ways of reducing their negative effects;
- investigate, in qualitative and quantitative terms, the properties of mechanical waves and sound, and solve related problems;
- demonstrate an understanding of the properties of mechanical waves and sound and of the principles underlying their production, transmission, interaction, and reception.

## Electricity & Magnetism

By the end of the course, students will:

- Analyse the social, economic, and environmental impact of electrical energy production and technologies related to electromagnetism, and propose ways to improve the sustainability of electrical energy production;
- investigate, in qualitative and quantitative terms, magnetic fields and electric circuits, and solve related problems;
- demonstrate an understanding of the properties of magnetic fields, the principles of current and electron flow, and the operation of selected technologies that use these properties and principles to produce and transmit electrical energy.

## COURSE CONTENT

| <i>Unit</i>                       | <i>Length</i>    |
|-----------------------------------|------------------|
| Unit 1: Kinematics                | 20.5 hours       |
| Unit 2: Forces                    | 17.5 hours       |
| Unit 3: Energy                    | 22.5 hours       |
| Unit 4: Waves and Sound           | 18.5 hours       |
| Unit 5: Electricity and Magnetism | 21 hours         |
| Unit 6: Review                    | 10 hours         |
|                                   | 2 hours          |
| Final Exam                        |                  |
| <b>Total</b>                      | <b>110 Hours</b> |

## UNIT DESCRIPTIONS

### Unit 1 - Kinematics

In this unit, students will learn about the concept of Motion and Vectors and will use these skills to work through problems. In doing so, they will develop and demonstrate essential skills. Students will analyse technologies that apply concepts related to kinematics, and assess the technologies' social and environmental impact. They will investigate in qualitative and quantitative terms, uniform and non-uniform linear motion, and solve related problems. Finally, they will demonstrate an understanding of uniform and non-uniform linear motion, in one and two dimensions.

## Unit 2 - Forces

In this unit, students will learn about the concept of Force and Newton's Laws and will use these skills to work through problems. They will be able to explain Newton's laws and draw free body diagrams, use Newton's second law equation to find mass, distinguish between different scenarios involving the law, and contrast the different ways to transfer thermal energy.

## Unit 3 - Energy

In this unit, students will learn about the concept of Energy and will use these skills to work through problems. Students will calculate work, given all types of conditions, list the different forms of energy with examples, apply the law of conservation of energy to real life situations, and contrast the different ways to transfer thermal energy and make calculations finding the energy lost or gained in these transfers.

## Unit 4- Waves and Sound

In this unit, students will learn about the concept of Waves and Sound and will use these skills to work through problems. Students will explain the different types of vibrations and the motion of waves, describe different properties of sound and sound waves, make calculations involving the speed of sound and explain the Doppler Effect, and describe different terminology related to music such as harmonics, overtones, and octaves.

## Unit 5 - Electricity

In this unit, students will learn about the concept of Waves and Sound and will use these skills to work through problems. Students will explain the different types of vibration and the motion of waves, use the Universal Wave Equation to solve problems for wavelength and period of wave, and describe different properties of sound and sound waves. Students will apply calculations involving the speed of sound and describe different terminology.

## Unit 6 - Review and Final Assessments

In this unit, students will learn about the concept of Electricity and Magnetism and will use these skills to work through problems. Students will explain electric fields and the properties that accompany them. They will use the equations related to current and voltage as well as explain how they are found in a circuit. Students will explain how resistance is found throughout a circuit using the equations for parallel and series circuits.

## TEACHING AND LEARNING STRATEGIES

In this course, students will experience the following activities.

**Presentations with embedded videos** are utilized to outline concepts, explain theory with the use of examples and practice questions, and incorporate multi-media opportunities for students to learn more (e.g. online simulations, quizzes, etc.).

**End of unit conversations and Poodlls** are opportunities for students to express their ideas, problem solving, and thought processes with a teacher who provides timely feedback.

**Reflection** is an opportunity for students to look back at concepts and theories with new eyes, to relate theory to practice, and to align learning with their own values and beliefs.

**Discussions with the instructor** are facilitated through video conferencing, discussing the concepts and skills being studied. This enables two-way communication between the student and the instructor, to share ideas and ask questions in dialogue. This also helps to build a relationship between the student and instructor.

**Instructor demonstrations** (research skills, etc.) are opportunities for the instructor to lead a student through a concept or skill through video conferencing, videos, or emailing with the student.

Discussion forums are an opportunity for students to summarize and share their ideas and perspectives with their peers, which deepens understanding through expression. It also provides an opportunity for peer-to-peer feedback.

**Practical extension** and application of knowledge are integrated throughout the course. The goal is to help students make connections between what they learn in the classroom and how they understand and relate to the world around them and their own lives. Learning becomes a dynamic opportunity for students to be more aware that their learning is all around them and enable them to create more meaning in their lives.

**Individual activities/assignments assessments** are completed individually at a student's own pace and are intended to expand and consolidate the learning in each lesson. Individual activities allow the teacher to accommodate interests and needs and to assess the progress of individual students.

For this reason, students are encouraged to discuss IEPs (Individual Education Plans) with their teacher and to ask to modify assessments if they have a unique interest that they feel could be pursued in the assessment. The teacher plays an important role in supporting these activities by providing ongoing feedback to students, both orally and in writing.

**Research** is an opportunity to apply inquiry skills to a practical problem or question. Students perform research to gather information, evaluate quality sources, analyze findings, evaluate their analysis, and synthesize their findings into conclusions. Throughout, students apply both creative thinking and critical thinking. New questions are also developed to further learning.

**Writing as a learning tool** helps students to think critically about course material while grasping, organizing, and integrating prior knowledge with new concepts. Good communication skills are important both in and out of the classroom.

**Virtual simulations** are interactive websites that provide students with an opportunity to ask questions, explore hypotheses, relate variables, examine relationships, and make connections between theory and application in a safe environment that promotes intellectual risk taking and curiosity.

**Virtual labs** are interactive websites that provide students with an opportunity to follow a procedure to test hypotheses using scientific apparatus, gather and record observations, analyze observations using formula and relevant theory/concepts, and then formulate conclusions that relate hypotheses to analysis.

**Diagrams** are visual representations of scientific ideas and concepts. They provide another perspective to organize ideas. Visuals are thought to promote cognitive plasticity - meaning, they can help us change our minds or help us to remember an idea.

**Graphics/images** are visual representations of ideas/concepts. Visuals are thought to promote cognitive plasticity - meaning, they can help us change our minds or help us to remember an idea.

**Charts** are visual representations of scientific ideas and concepts using math that support analysis. For example, you can have a pie chart that shows Canada's energy sources.

**Tables** involve organizing information in terms of categories (rows and columns). This helps us to understand the relationships between ideas and data, as well as highlight trends.

**Drawings and schematics** are scientific and engineering ideas explained visually. For example, an electric circuit can be explained using symbols, which makes it possible to communicate ideas universally, clearly, and succinctly.

**Articles** are examples of concepts and theories being discussed in the public realm and with respect to current events. They are snapshots not only of why scientific theories/concepts/applications are relevant but also provide a window into the broader context of scientific knowledge and understanding. Students learn through reading and analysis that science is deeply related to, and intertwined with, society and the diverse perspectives of lived experience.

**Practice problems** provide students with a scenario/problem to solve by applying concepts and skills learned in a context. This helps students to understand the relevance of their learning.

## ASSESSMENT, EVALUATION, AND REPORTING

**Assessment:** The process of gathering information that accurately reflects how well a student is achieving the identified curriculum expectations. Teachers provide students with descriptive feedback that guides their efforts towards improved performance.

**Evaluation:** Assessment of Learning focuses on Evaluation which is the process of making a judgement about the quality of student work on the basis of established criteria over a limited, reasonable period of time.

**Reporting:** Involves communicating student achievement of the curriculum expectations and Learning Skills and Work Habits in the form of marks and comments as determined by the teacher's use of professional judgement.

### **Assessment & Evaluation at OES: Triangulation of Learning**

In alignment with the Ontario Ministry of Education's *Growing Success* policy, student achievement across all high school courses at Ontario eSecondary School (OES) is evaluated through the **triangulation of evidence: observations, conversations, and student products**.

OES courses incorporate each of these evidence sources in a variety of ways to provide every student with equitable opportunities to demonstrate their learning:

- **Observations:** Collected through video recordings, interactive digital tools, learning logs, and synchronous task demonstrations.
- **Conversations:** Gathered via teacher-student conferences, oral defenses, virtual check-ins, and reflective feedback dialogues.
- **Products:** Demonstrated through major projects, essays, lab reports, performance tasks, and final assessments.

By evaluating a balanced variety of evidence, OES teachers apply professional judgment to ensure accurate, fair, and comprehensive assessment of each student's progress.

## **STRATEGIES FOR ASSESSMENT**

Assessment practices can nurture students' sense of progress and competency and information instruction. Many diagnostic tools, e.g. checklists and inventories, are used at regular intervals throughout the units to encourage students' understanding of their current status as learners and to provide frequent and timely reviews of their progress.

Teachers are encouraged to share goals with students early in the course and to connect Unit learning experiences frequently and explicitly with big ideas, overall expectations, and performance tasks.

Students are also allowed a one-page (two sided) study sheet for the course. Teachers are recommended to encourage their students to create these sheets as a way of preparing for the tests.

## **ASSESSMENT ACTIVITIES**

- Virtual lab assignments
- Practice (formative) worksheets
- Oral presentations
- Research projects
- Inquiry Assignments
- Tests & Exam

## **EVALUATION**

The final grade will be determined as follows:

- ☐ 65% percent of the grade will be based on evaluation conducted throughout the course. This portion of the grade should reflect the student's most consistent level of achievement throughout the course, although special consideration will be given to more recent evidence of achievement.
- ☐ 25% of the grade will be based on a final evaluation administered at the end of the course. This evaluation will be based on a final written examination, comprehensive of the course. The final evaluation is an opportunity for the student to demonstrate comprehensive achievement of the overall expectations for the course.

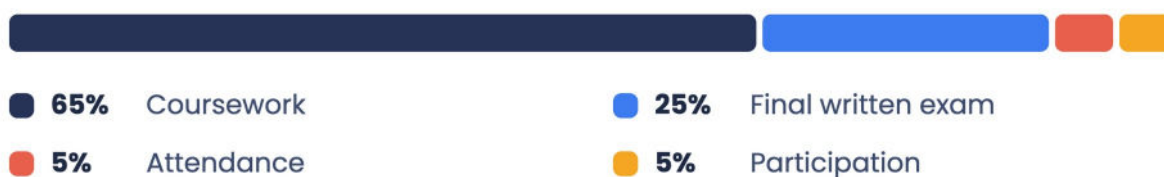
- ☐ 10% of the grade will be based on the student's attendance and participation throughout the course, assessed according to Ministry criteria.

(*Growing Success: Assessment, Evaluation and Reporting in Ontario Schools*. Ontario Ministry of Education Publication, 2010 p.41)

## SPH3U Physics

Grade 11 · University

How the final mark is calculated from September 2026



## TERM WORK EVALUATIONS (65%)

| Evaluation Item                  | Description                                                                                         | Category   | Weight |
|----------------------------------|-----------------------------------------------------------------------------------------------------|------------|--------|
| Unit 1: Quiz                     | Students will complete the quiz on Moodle.                                                          | K, A       | 3.5    |
| Unit 1: Unit Test                | Students will complete a Unit Test consisting of multiple choice, true and false, and short answer. | K, I, C, A | 9      |
| Unit 1: End of Unit Conversation | Students will contact their teacher to have the end of unit conversation.                           | K, I, C, A | 0.5    |
| Unit 2: Quiz                     | Students will complete the quiz on Moodle.                                                          | K, A       | 3.5    |
| Unit 2: Unit Test                | Students will complete a Unit Test consisting of multiple choice, true and false, and short answer. | K, I, C, A | 9      |
| Unit 2: End of Unit Conversation | Students will contact their teacher to have the end of unit conversation.                           | K, I, C, A | 0.5    |
| Unit 3: Assignment               | Students will complete an assignment on Power                                                       | K, I, C, A | 3.5    |

|                                  |                                                                                                     |            |     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|------------|-----|
|                                  | Generations Plants.                                                                                 |            |     |
| Unit 3: Unit Test                | Students will complete a Unit Test consisting of multiple choice, true and false, and short answer. | K, I, C, A | 9   |
| Unit 3: End of Unit Conversation | Students will contact their teacher to have the end of unit conversation.                           | K, I, C, A | 0.5 |
| Unit 4: Quiz                     | Students will complete the quiz on Moodle.                                                          | K, A       | 3.5 |
| Unit 4: Unit Test                | Students will complete a Unit Test consisting of multiple choice, true and false, and short answer. | K, I, C, A | 9   |
| Unit 4: End of Unit Conversation | Students will contact their teacher to have the end of unit conversation.                           | K, I, C, A | 0.5 |
| Unit 5: Quiz                     | Students will complete the quiz on Moodle.                                                          | K, A       | 3.5 |
| Unit 5: Unit Test                | Students will complete a Unit Test consisting of multiple choice, true and false, and short answer. | K, I, C, A | 9   |
| Unit 5: End of Unit Conversation | Students will contact their teacher to have the end of unit conversation.                           | K, I, C, A | 0.5 |

## FINAL EVALUATIONS (25%)

| Evaluation Item | Description                                                                                   | Category | Weight |
|-----------------|-----------------------------------------------------------------------------------------------|----------|--------|
| Final Exam      | An exam to cover the major units studied through this course. This will be 3 hours in length. | SUM      | 20     |

## ATTENDANCE AND PARTICIPATION (10%)

| Evaluation Item      | Description                                                                                                                                                                                                                                                                   | Category | Weight |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|
| <b>Attendance</b>    | Assessed according to the Ministry's attendance criteria (Growing Success, September 2026 update), based on the proportion of unexcused absences over the course.                                                                                                             | N/A      | 5      |
| <b>Participation</b> | Assessed according to the Ministry's participation criteria (Growing Success, September 2026 update), based on engagement in class discussions and activities throughout the course, including the standardized participation prompts (see Teaching and Learning Strategies). | N/A      | 5      |

### AFL/AAL/AOL Tracking sheet:

#### Unit 1: Kinematics

| AAL                                                                                         | AFL               | AOL                                                              |
|---------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------|
| -Lesson Notes<br>-Handout Solutions<br>-Discussion Forum Post: Conversation<br>-Test Review | -Gizmo worksheets | -Quiz<br>-Unit Test<br>-End of unit Conversation and Observation |

**Unit 2: Forces**

| <b>AAL</b>                                                                                     | <b>AFL</b>        | <b>AOL</b>                                                          |
|------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|
| -Lesson Notes<br>-Handout Solutions<br>-Discussion Forum Post:<br>Conversation<br>-Test Review | -Gizmo worksheets | -Quiz<br>-Unit Test<br>-End of unit Conversation and<br>Observation |

**Unit 3: Energy**

| <b>AAL</b>                                                                    | <b>AFL</b>        | <b>AOL</b>                                                                |
|-------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------|
| -Lesson Notes<br>-Handout Solutions<br>-Discussion Forum Post<br>-Test Review | -Gizmo worksheets | -Assignment<br>-Unit Test<br>-End of unit Conversation and<br>Observation |

**Unit 4: Waves and Sound**

| <b>AAL</b>                                                                    | <b>AFL</b>        | <b>AOL</b>                                     |
|-------------------------------------------------------------------------------|-------------------|------------------------------------------------|
| -Lesson Notes<br>-Handout Solutions<br>-Discussion Forum Post<br>-Test Review | -Gizmo worksheets | -Quiz<br>-Unit Test<br>-End of unit discussion |

**Unit 5: Electricity and Magnetism**

| <b>AAL</b>                                                                    | <b>AFL</b>        | <b>AOL</b>                                                          |
|-------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|
| -Lesson Notes<br>-Handout Solutions<br>-Discussion Forum Post<br>-Test Review | -Gizmo worksheets | -Quiz<br>-Unit Test<br>-End of unit Conversation and<br>Observation |

**Unit 6: Review and Final Assessments**

| <b>AOL</b> |
|------------|
| Final Exam |

**CONSIDERATION FOR PROGRAM PLANNING****PLANNING PROGRAMS FOR STUDENTS WITH SPECIAL EDUCATION NEEDS**

OES teachers are the key educators of students with special education needs and have a responsibility to help all students learn. Program planning for students with special education needs is guided by the principles set out in Learning for All: A Guide to Effective Assessment and Instruction for All Students, Kindergarten to Grade 12 (2013): all students can succeed; each student has their own unique patterns of learning; successful instructional practices are founded on evidence-based research, tempered by experience; and universal design and differentiated instruction are effective and interconnected means of meeting the learning or productivity needs of any group of students. Where a student has an Individual Education Plan (IEP), the accommodations identified in the IEP — instructional, environmental, and assessment — are implemented within the course, and the online learning environment is adapted accordingly. The asynchronous structure of OES courses provides built-in flexibility that supports many common accommodations, including extended time for assignments and assessments, breaks as needed, access to assistive technology, and the ability to review instructional material multiple times.

## **PROGRAM CONSIDERATIONS FOR ENGLISH LANGUAGE LEARNERS**

Ontario schools have some of the most linguistically diverse student populations in the world, and OES serves English language learners across Ontario and internationally. English language learners may be Canadian-born or newcomers; they may have experience of highly sophisticated educational systems or may have come from regions where access to formal schooling was limited. In planning this course, teachers consider the strengths and needs of English language learners and provide appropriate adaptations consistent with English Language Learners / ESL and ELD Programs and Services: Policies and Procedures for Ontario Elementary and Secondary Schools, Kindergarten to Grade 12 (2007). Supports within the online environment include modification of instructional language without modification of curriculum expectations, use of visual and multimedia supports, opportunities to replay and review lesson content, extended time where appropriate, and teacher feedback that models academic English. Assessment accommodations, such as granting additional time and permitting the use of bilingual dictionaries, are provided where appropriate.

## **ENVIRONMENTAL EDUCATION**

Consistent with *Acting Today, Shaping Tomorrow: A Policy Framework for Environmental Education in Ontario Schools* (2009) and *Environmental Education: Scope and Sequence of Expectations* (2017), environmental education is embedded across the curriculum rather than treated as a separate subject. Teachers help students acquire knowledge about the environment, develop skills to address environmental issues, and foster attitudes that motivate responsible environmental action. As an online school, OES also models environmental responsibility through paperless course delivery and the elimination of daily commuting. Environmental education is a natural fit in this course: students investigate the relationships between science, technology, society, and the environment, including topics such as sustainability, resource use, and the environmental impact of human activity, consistent with the STSE focus of the Ontario science curriculum.

## **EQUITY AND INCLUSIVE EDUCATION**

This course is planned and delivered in accordance with Ontario's Equity and Inclusive Education Strategy (2009) and Policy/Program Memorandum No. 119, *Developing and Implementing Equity and Inclusive Education Policies in Ontario Schools* (2013). OES is committed to an inclusive learning environment in which all students feel welcomed, respected, and able to succeed, regardless of ancestry, culture, ethnicity, sex, gender identity, sexual orientation, disability, race, religion, or socio-economic status. In this course, teachers select learning materials that reflect the diversity of Ontario and the wider world, address bias in texts and resources where it arises, and ensure that assessment practices are fair and free of cultural assumptions. Because OES students learn from communities across Ontario, Quebec, and around the world, discussion activities and teacher feedback are moderated to maintain a respectful, harassment-free environment for all learners.

## **FINANCIAL LITERACY EDUCATION**

In accordance with *A Sound Investment: Financial Literacy Education in Ontario Schools* (2010) and current Ministry direction on financial literacy, students are provided with opportunities to build the knowledge and skills needed to make informed financial decisions, understand their roles as consumers and citizens, and think critically about the economic forces that affect their lives. OES also supports students in meeting the Ministry's financial literacy graduation requirement, as described in the OES School Course Calendar. In this course, students consider the economic dimensions of scientific and technological choices, including cost-benefit analysis of technologies and the financial implications of decisions that affect health and the environment.

## **FIRST NATIONS, MÉTIS, AND INUIT EDUCATION**

Program planning in this course aligns with the Ontario First Nation, Métis, and Inuit Education Policy Framework (2007), which supports improved outcomes for First Nations, Métis, and Inuit students and promotes awareness and understanding of Indigenous histories, cultures, perspectives, and contributions among all students. Where appropriate to the curriculum expectations, teachers incorporate Indigenous perspectives, authors, and content, and approach these topics with accuracy and respect, drawing on Ministry-recommended resources. All OES students benefit from opportunities to deepen their knowledge of

the histories and contemporary realities of First Nations, Métis, and Inuit peoples, including the legacy of the residential school system and the Truth and Reconciliation Commission's Calls to Action related to education.

## THE ROLE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

Information and communications technology (ICT) is integral to every OES course: instruction, learning activities, assessment, and teacher-student communication all take place through the school's learning management system. ICT tools — including multimedia lessons, digital texts, simulations, video conferencing for proctored assessments, and word-processing and productivity software — extend and enrich instruction and allow students to collect, organize, and present their learning in a range of formats. Teachers help students develop digital citizenship skills, including responsible and ethical use of technology, critical evaluation of online sources, protection of personal information, and academic integrity in digital environments, consistent with OES's Acceptable Use, Academic Honesty, and Artificial Intelligence policies as published in the School Course Calendar.

## CAREER EDUCATION

Consistent with *Creating Pathways to Success: An Education and Career/Life Planning Program for Ontario Schools* (2013), teachers support students in answering the four questions at the centre of education and career/life planning: Who am I? What are my opportunities? Who do I want to become? What is my plan for achieving my goals? Expectations in this course include many opportunities for students to apply their skills to work-related situations, explore educational and career options, and become self-directed learners. OES guidance staff support students in course selection, postsecondary application planning (including OUAC, CEGEP, and international pathways), and the development of individual pathways plans. This course supports pathways into health sciences, engineering, environmental science, research, technology, and the skilled trades, and career connections within scientific fields are highlighted throughout the course.

## COOPERATIVE EDUCATION AND OTHER FORMS OF EXPERIENTIAL LEARNING

Planned learning experiences in the community, including job shadowing, work experience, and cooperative education, provide students with opportunities to see the relevance of their classroom learning, explore careers of interest, and develop essential workplace skills consistent with *The Ontario Curriculum, Grades 11 and 12: Cooperative Education* (2018). Students may earn up to two cooperative education credits toward their compulsory credit requirements for the Ontario Secondary School Diploma. Students interested in experiential learning opportunities related to this course are encouraged to contact OES guidance staff to discuss options available to them.

## HEALTH AND SAFETY

Although OES students learn remotely, health and safety remain integral considerations in program planning. Teachers model and promote safe and healthy practices for online learning, including sound ergonomics, balanced screen time, regular breaks, and strategies that support positive mental health and well-being. OES maintains a safe and respectful virtual learning environment consistent with the school's codes of conduct, bullying prevention expectations, and privacy practices as published in the School Course Calendar, and students are provided with clear channels for reporting concerns to their teachers, guidance staff, or the Principal. Where the course includes hands-on, at-home investigations, students receive explicit safety instruction, use only safe household materials as directed, and are required to follow all stated precautions; virtual labs and simulations are used where hands-on activity would pose a risk in a home setting.

## ACCOMMODATIONS

Accommodations will be based on meeting with parents, teachers, administration and external educational assessment reports. The following three types of accommodations may be provided:

- ☐ **Instructional accommodations:** such as changes in teaching strategies, including styles of presentation, methods of organization, or use of technology and multimedia.
- ☐ **Assessment accommodations:** such as allowing additional time to complete tests or assignments or permitting oral responses to test questions.

Other examples of modifications and aids, which may be used in this course, are:

- ☐ Provide step-by-step instructions.
- ☐ Help students create organizers for planning writing tasks.
- ☐ Allow students to report verbally to a scribe (teacher/ student) who can help in note taking.
- ☐ Permit students a range of options for reading and writing tasks.
- ☐ Where an activity requires reading, provide it in advance.
- ☐ Provide opportunities for enrichment.