

<p>Course Description: This course extends students' understanding of computer hardware, software and networking security concepts. Students will complete the second half of CISCO IT Essentials: PC Hardware and Software as a preparation for CompTIA A+ Certification, an industry standard for establishing a career in IT.</p> <p>Students will broaden their understanding of digital circuits, electronic components, and robotics while further solidifying their programming skills in C++.</p> <p>Students will examine related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.</p>	<p>Grade 11 - Mixed (University & College)</p> <p>Level:</p> <p>Credit Value: 1.0</p> <p>Prerequisite: TEJ3M</p> <p>Department: Technology Department</p> <hr/> <p>Course Fees: None</p>
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<p>Textbooks & Resources:</p> <ul style="list-style-type: none"> ● Growing Success: Assessment, Evaluation and Reporting in Ontario Schools ● The Ontario Curriculum Grade 11 and 12 Technological Education ● All CISCO resources can be found at their Networking Academy website http://netacad.com. There is no physical text-book for this course. ● Google Classroom will be used to distribute additional resources (docs and videos) and collect student work.
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<p>Course Evaluation: Student Evaluation consists of three components...</p>	
<p>1) Learning Skills & Work Habits:</p> <p>Students are evaluated on 6 Learning Skills & Work Habits. The 6 Essential Skills are:</p> <ul style="list-style-type: none"> ● Responsibility ● Organization ● Independent Work ● Collaboration ● Initiative ● Self-Regulation 	<p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card. They are not included in the course mark, unless specified in the curriculum expectations.</p>
<p>2) Course Mark (Assessment of Learning):</p> <p>Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:</p> <ul style="list-style-type: none"> ● Knowledge 20% ● Thinking & Inquiry 20% ● Communication 20% ● Application 40% 	<p>Evaluation of these four categories within this course will determine the course mark (100%).</p> <p>It is the student's responsibility for submitting evidence of Learning.</p>

<p>Course Conduct Policies: See Student Agenda.</p>
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<p>Course Outline (Quadmester - Covid19)</p>



Unit	Description	Approx Time	Unit Evaluation
IT Essentials	Laptops and Other Mobile Devices Printers Virtualization and Cloud Computing Windows Installation and Configuration Other Operating Systems Network Security	($\frac{1}{3}$ course)	Research Quizzes Unit Test
Digital Logic	Adders and Subtractors Latch Circuits Shift Registers Binary Counters Design of Integrated Circuits	($\frac{1}{3}$ course)	Assignments Quizzes Unit Test
Electronics, Robotics and Programming	Advanced Electronic Components Wiring Schematics Advanced Programming Concepts in C++ Interfacing with Arduino	($\frac{1}{3}$ course)	Assignments Quizzes Unit Test

Note: Order units are delivered may change due to student needs and resources available during the course.

General Information:

Academic Honesty: SATEC + TDSB Academic Honesty policy will apply.

Late Work: Late work, that has not been previously coordinated/discussed with the teacher, will be marked at the discretion of the teacher.

Field Trips: Due to Covid-19, there will be no field trips.

Recommended Resources: Google Classroom, CISCO Networking Academy

How to Seek Extra Help: Before, during and after class, and via email.

Certifications: IT Essentials Certificate

Safety Training: All students will complete safety training to the Teachers standards prior to use.