

**SOUTH CARLETON HIGH SCHOOL**

Ottawa-Carleton District School Board

**STUDENT OUTLINE****TEJ3M**

Computer Engineering Technology

Grade 11

Credit Value: 1.0

Hours: 110

Prerequisite: none

**Course Overview**

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of related environmental and societal issues, and will learn about college and university programs leading to careers in computer technology.

**Expectations**

Unit Title	Overall Expectations
Computer Technology Fundamentals	<b>A1.</b> describe how computer components function, and discuss trends in the development of computer hardware; <b>A2.</b> describe the functions of BIOSes and operating systems, and how they interact with each other and with computer hardware.
Computer Technology Skills	<b>B1.</b> build, configure, and maintain a computer system, and connect peripheral devices; <b>B2.</b> set up, optimize, and back up a computer system; <b>B3.</b> design, install, configure, test, and troubleshoot networks;
Technology, the Environment, and Society	<b>C1.</b> describe environmental issues related to the widespread use of computers and associated technologies; <b>C2.</b> describe societal issues related to the widespread use of computers and associated technologies.
Professional Practice and Career Opportunities	<b>D1.</b> demonstrate an understanding of relevant safety practices, standards, and legislation; <b>D2.</b> describe ethical and security issues related to the use of computers.

**Accommodations for Exceptional Students**

The technology department makes every effort to accommodate the identified needs of exceptional (IPRC'd) students and will attempt to differentiate curriculum delivery methods, student modes of expression, and assessment methods as recommended by the student's individual education plan (IEP).

**Teaching Strategies**

Units are activity based. Teacher demonstrations and research activities provide the students with the necessary terminology and methodology to complete the activities. Classroom discussions, collaborative and co-operative learning, research, report writing and taking notes will assist students in meeting the course expectations. Upon completion of this course, students will demonstrate the ability to apply skills and knowledge to practical situations that involve the completion of work assignments and problem-solving activities. Students will be expected to use the Internet to find resources for their projects.

**Resources/Textbooks/Technological Integration**

A series of in-house workbooks and electronic resources.

**Evaluation**

Term Report	Final Report	
Students will be evaluated on the overall expectations listed above. Evaluations will cover a balance of Responsibility, Organization, Independent Work, Collaboration, Initiative and Self-Regulation.	Term	70%
	Summative task	30%
		<b>100%</b>

**Key Evaluation Dates:**

**Technological Studies summatives will come due within the school's Summative and Evaluation Period between January 6<sup>th</sup> and 31<sup>st</sup> and June 8<sup>th</sup> to June 30<sup>th</sup>**

**Absence from evaluations during these dates must be substantiated with a medical certificate or equivalent documentation as approved by administration.**

**Classroom Management**

Due to the nature of the technology classroom, no food or beverages, jackets or bags can be allowed. Adherence to school Internet use policy will be strictly enforced. Noncompliance will result in the removal of computer privileges for the students for an indeterminate period of time.

More information on South Carleton High School's policy on Assessment and Evaluation and on Academic Integrity can be accessed on our school website [www.southcarleton.ca](http://www.southcarleton.ca)