

SOUTH CARLETON HIGH SCHOOL

Ottawa-Carleton District School Board

STUDENT OUTLINE**TEJ4M**

Computer Engineering Technology

Grade 12

Credit Value: 1.0

Hours: 110

Prerequisite: TEJ3M

Course Overview

This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.

Expectations

Unit Title	Overall Expectations
Computer Technology Fundamentals	A1. demonstrate an understanding of internal buses and storage devices, and of advances in computer technology; A2. demonstrate an understanding of network addressing and routing.
Computer Technology Skills	B1. maintain and troubleshoot a variety of computer hardware and software; B2. design, build, configure, maintain, and troubleshoot networks, and set up various network services for users.
Technology, the Environment, and Society	C1. analyse environmental issues related to the widespread use of computers and associated technologies, and apply strategies to reduce environmental harm from computer use; C2. analyse societal issues related to the widespread use of computers and associated technologies.
Professional Practice and Career Opportunities	D1. explain the importance of safety standards and practices, and use appropriate techniques to avoid health and safety problems; D2. describe ethical and security issues related to the use of computers and related technology.

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%
		100%

Key Evaluation Dates:

Technological Studies summatives will come due within the school's Summative and Evaluation Period between January 6th and 31st and June 8th to June 26th.

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