

SOUTH CARLETON HIGH SCHOOL
 Ottawa-Carleton District School Board
STUDENT OUTLINE
TDJ3M
 Design Technology
 Grade 11

Credit Value: 1.0

Hours: 110

Prerequisite: none

Course Overview

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

Specific Expectations

Unit Title	Specific Expectations	Approximate Timelines
Drawing Skills & CAD	B1. a variety of planning techniques and tools to come up with solutions B2. use hand-drawn sketches to organize sequences, clarify relationships B3. use orthographic projections to convey solutions A3. illustrate ideas and solutions using hand-drawn and computer illustrations, as well as technical drawings	4 weeks
Engineering & Mechanical Design	A4. B3. design and fabricate models, prototypes, or mock-ups A2. A5. test solutions against materials, fabrication and design criteria and identify potential implementation problems;	5 weeks
Industrial Design	A1. describe project ideas and solutions; B4. D2. describe methods to test and evaluate design solutions;	5 weeks
Architectural Design	B1. analyze design criteria from given design briefs C1. C2. D1. explain how the choice and use of materials may affect the environment	5 weeks
Professional Practice	D2. identify career opportunities in fields related to technological design, and describe the training and education required for these careers.	Throughout

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 demonstrates 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.

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 6 th and 31 st and June 8 th to June 30 th		
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