

## Technological Design TDJ4M

<p><b>Course Description:</b> This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and will explore career opportunities and postsecondary education and training requirements for them.</p>	Grade 12 - Mixed
	<b>Level:</b> (University & College)
	<b>Credit Value:</b> 1.0
<b>Prerequisite:</b> TDJ3M	<b>Department:</b> Technology Department
<b>Course Fees:</b> None	

<p><b>Textbooks &amp; Resources:</b></p> <ul style="list-style-type: none"> <li>● Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>● The Ontario Curriculum Grade 11 and 12 Technological Education</li> <li>● Google Classroom will be for general documentation, SATEC drop/pick up for Digital Drawings, TDSB Software</li> </ul>
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<p><b>Course Evaluation:</b> Student Evaluation consists of three components...</p>	
<p><b>1) Learning Skills &amp; Work Habits:</b></p>	
<p>Students are evaluated on 6 Learning Skills &amp; Work Habits. The 6 Essential Skills are:</p> <ul style="list-style-type: none"> <li style="width: 50%;">● Responsibility</li> <li style="width: 50%;">● Collaboration</li> <li style="width: 50%;">● Organization</li> <li style="width: 50%;">● Initiative</li> <li style="width: 50%;">● Independent Work</li> <li style="width: 50%;">● Self-Regulation</li> </ul>	<p>These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) &amp; 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><b>2) 100% = Course Mark (Assessment of Learning):</b></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"> <li style="width: 50%;">● Knowledge 20%</li> <li style="width: 50%;">● Thinking &amp; Inquiry 20%</li> <li style="width: 50%;">● Communication 20%</li> <li style="width: 50%;">● Application 40%</li> </ul>	<p><b>INDEPENDENT PROJECT = 100%</b> Evaluation of these four categories within this project will determine the course mark.</p> <p><b>It is the student's responsibility for submitting evidence of Learning.</b></p>

<p><b>Course Conduct Policies:</b> See Student Agenda.</p>
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## Technological Design



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<b>Course Outline (Quadmester - Covid19)</b>			
<b>Unit</b>	<b>Description</b>	<b>Approx Time</b>	<b>Unit Evaluation</b>
<b>Research</b>	<b>Knowledge:</b> Students will research and build a model of a precedent. Students will choose an environmental topic/issue to research and present.	( $\frac{1}{2}$ course)	Research Hand Draft + Built Model Research Presentation
<b>Design Develop + Planning</b>	<b>Thinking:</b> Students will sketch, build mock-ups and develop their project's design. Students will plan how they will execute their project relative to format (technical drawing/build model/combination), schedule, budget.	( $\frac{1}{2}$ course)	Hand Sketches Mock-ups Schedule
<b>Create it</b>	<b>Application:</b> Students will document their project design via: Technical Drawings (hand or computer based) <i>and/or</i> Model (various materials)	( $\frac{2}{3}$ course)	Technical Drawings Model
<b>Design Process Report</b>	<b>Communication:</b> Students will create their own 'design process'. Students will propose the project topic. Students will document the entire term's design process in a report format.	( $\frac{1}{3}$ course)	Written Report

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

<p><b>General Information:</b></p> <p><b>Academic Honesty:</b> SATEC + TDSB Academic Honesty policy will apply.</p> <p><b>Late Work:</b> Late work, that has not been previously coordinated/discussed with the teacher, will be marked at the discretion of the teacher. This mark, however, will be capped at 79%.</p> <p><b>Field Trips:</b> Due to Covid-19, there will be no field trips.</p> <p><b>Recommended Resources:</b> Google Classroom, School network documents and internet, library.</p> <p><b>How to Seek Extra Help:</b> Mornings, during class and email.</p> <p><b>Certifications:</b> None.</p> <p><b>Safety Training:</b> All students will complete safety training to the Teachers standards prior to use.</p>
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