

EDEN HIGH SCHOOL

Course Outline

Teacher:	Mr. Caruso
Course Title:	Construction Engineering Technology
Course Code:	TCJ 4C1
Type of Course:	College Preparation
Grade:	12
Credit Value:	1.0
Ministry Guidelines:	The Ontario Curriculum, Grades 11 and 12, Technological Education, 2009

Course Description

This course focuses on a more in-depth study of residential construction and woodworking and prepares students for a post secondary education or career in the construction field. Students will gain hands-on experience by safely using a variety of materials, tools and equipment used in the building industry. Students will also develop design skills by creating architectural working drawings for a residential home using the AutoCAD program. This course is ideal for those interested in building and woodworking as a hobby as well as those who wish to pursue a construction related career. Projects include: stair unit, roof frame, architectural drawings, residential framing model and hope chest.

Safety is the top priority. Students will follow the safety rules at all times while in the shop.

Late projects and written work will be penalized 5% each day up to 25%, until the work is marked and returned. Then the penalty will be 100%.

Course Overview

Unit	Activity	Weight
Unit 1: Construction Shop Fundamentals and Stair Design	<ul style="list-style-type: none"> • Machine Safety Review • Safety Licence • Dressing/Milling Stock Review • Stair Design and Construction • Building Code • Unit Tests • Project 1 	15%
Unit 2: Drafting and Design	<ul style="list-style-type: none"> • The Design Process • Architectural Drawings • Blueprint Reading • AutoCAD Review • Estimating • Unit Test • Project 2 	15%
Unit 3: Roof Construction	<ul style="list-style-type: none"> • Roof Types • Framing • Shingling • Ventilation • Post Secondary Education and Careers • Unit Test • Project 3 	20%
Unit 4: Cabinet Making	<ul style="list-style-type: none"> • Wood Anatomy • Wood Characteristics and Selection • Gluing Wood to Width • Nail Gun Safety • Unit Test • Project 4 	20%
Unit 5: Exam Project	<ul style="list-style-type: none"> • Final Exam Project • Report • Unit Test 	30%