

Henry Street High School

TDJ 4M1

Technological Design, Grade 12, University/College Preparation

COURSE OUTLINE

COURSE DESCRIPTION *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 the postsecondary education and training requirements for them.*

UNITS OF STUDY

- UNIT 1** – Introduction to Design Principles and Process
- UNIT 2** – Working Drawing and Animation Techniques
- UNIT 3** – Inventor 3D design – Advanced Lego Project (Group)
- UNIT 4** – Inventor 3D design – Product redesign (Individual)
- UNIT 5** – Inventor 3D design – Mechanisms (Pair/Individual)
- UNIT 6** – Architectural Desktop – Commercial Project (Individual)
- UNIT 7** – Explore career paths and opportunities.
- UNIT 8** – Presentation of Years Work.
- UNIT 9** – Final Examination Review and Final Examination.

ASSESSMENT AND EVALUATION Assessment and Evaluation for TDJ3M1 is structured as follows.

❖ Advanced Lego Project	(14%)
❖ Product Redesign	(14%)
❖ Mechanisms Project	(14%)
❖ Commercial building Project	(20%)
❖ Careers	(8%)
❖ Presentation of year's work	(20%)
❖ Final Exam	(10%)
TOTAL	(100%)

OTHER INFORMATION It is recommended that all students back up their computer work daily on a USB flash memory drive that is at least 8GB in size.