

Henry Street High School

TEJ 3M1

Computer Engineering Technology, Grade 11, University/College Preparation

COURSE OUTLINE

COURSE DESCRIPTION *This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of related environmental and societal issues, and will learn about college and university programs leading to careers in computer technology.*

UNITS OF STUDY

- UNIT 1** – Introduction/History of Computing
- UNIT 2** – Hardware
- UNIT 3** – Software
- UNIT 4** – Programming
- UNIT 5** – Robotics
- UNIT 6** – Independent Study Unit
- UNIT 7** – Build a Computer
- 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.

❖ Introduction/History	(10%)
❖ Hardware	(10%)
❖ Software	(10%)
❖ Robotics	(10%)
❖ Programming	(10%)
❖ Build a computer	(10%)
❖ Presentation of year's work	(10%)
❖ ISU	(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.