**Drafting & Design Course Outline**

**DRAFTING & DESIGN 10**

*Prerequisite:  None*

**AutoCAD Level 1** – If drafting draws your interest, this course is designed for the beginner student considering careers such as drafting, engineering, interior design, industrial design, architecture, carpenter, steel fabricator, cabinet maker, electrician, plumbing, heating or any one of the numerous other professions, which all demand knowledge of drafting.  Level 1 explores the elements and techniques used for sketching, designing, modeling and creating mechanical and basic architectural drawings. Starting with the basics of board drafting, this course then quickly moves on to 2-D Computer Assisted Drafting and Design (CADD), using AutoCAD software. Designing and printing a 3D object to the 3D Printer is another component of this course. Students will be expected to create a Portfolio of their work in a digital format.

**DRAFTING & DESIGN 11**

*Prerequisite:  None*

**AutoCAD Level 1** – If drafting draws your interest, this course is designed for the beginner student considering careers such as drafting, engineering, interior design, industrial design, architecture, carpenter, steel fabricator, cabinet maker, electrician, plumbing, heating or any one of the numerous other professions, which all demand knowledge of drafting.  Level 1 explores the elements and techniques used for sketching, designing, modeling and creating mechanical and basic architectural drawings. Starting with the basics of board drafting, this course then quickly moves on to 2-D Computer Assisted Drafting and Design (CADD), using AutoCAD software. Designing and printing a 3D object to the 3D Printer is another component of this course. Students will be expected to create a Portfolio of their work in a digital format.

**DRAFTING & DESIGN 12**

*Prerequisite:  Drafting and Design 10 or 11, Level 1*

**AutoCAD Level 2** – For those who see a career in drafting, architectural design, engineering (civil, mechanical, electrical or aero), technologies (civil, electronic, mechanical), woodwork, or the metal trades this course is your next step. In the architectural portion of this course, students will draw a set of floor plans, elevations and perspective drawings of a single floor residential home. While in the mechanical portion, students will learn the basics and move on to more advanced drafting in 3 view drawing (Orthographic), perspective drawing, developments, intersections and 3D solid modeling. Designing and printing a complex 3D object to the 3D Printer is another component to this course. Students will be using CADD software (Computer Assisted Drafting and Design software – AutoCAD) and will be expected to create a Portfolio of their work in analog or digital format.

***Drafting Evaluation***

**Assignments are marked as follows: (General due to flexibility of course-pace)**

·    **Complexity of the Assignments:** - Harder assignments are worth more.

Major Assignments are marked using a Rubric.  These rubrics are available to you before you start the project.

·    **Quality of the Assignments:**  Marks are earned as to quality of the work.

·    **Quantity of Assignments:**  Bonus marks are earned as to the number of bonus assignments completed

***Term and Final Marks***

**·   Each term is worth 50% of your final mark**