

WOOD TECHNOLOGY 10

COURSE OUTLINE

COURSE OBJECTIVE:

The main course objective is to have students practise the safe and proper use of hand tools, power tools and machinery commonly found in woodwork shops. By the end of this course the student should be confident in using machinery and have the basic processes needed to continue on in the woodworking field or to use these skills to enhance their ability to create projects for other subject areas with confidence.

RESPONSIBILITY OF THE STUDENT:

- 1) Always show responsibility and maturity while operating in the shop. Unsafe or foolish behaviour is unacceptable and could result in removal from the class.
- 2) Treat tools carefully so that they will always work properly for you and for others.
- 3) If an accident occurs report it to the teacher immediately.
- 4) If a tool or machine is broken report it to the teacher immediately.
- 5) If you are ever in doubt, ask the teacher.
- 6) If a student is absent, it is his/her responsibility to make-up missed work. All materials and assignments can be found here Makerspace.lsfeldschool.com
- 7) You will need a NOTEBOOK, PENCIL and ear buds (NOT your cell phone) for most classes.

ASSIGNMENTS/PROJECTS:

- 1) Drawing with Autodesk Inventor & Laser Cutting

Students will complete a couple of tutorials meant to familiarize them with this software and how to use it to draw their projects in 3D, produce sets of plans and export out parts to a laser cutter.

- 2) Laminated Project

This project is to be designed by the student. This project is used to give students their first experience with the procedures and processes of using large machinery (jointer, planer, table saw, mitre saw) in the woodwork shop. This project **MUST** include the use of the Laser Engraver or CNC Router.

- 3) Stool, Chair, bench Project

Students will have the opportunity to construct a project with multiple pieces using proper woodworking techniques. The projects can be altered to suit the student's needs. This project will make up a significant part of their term mark. It **MUST** be finished by term end to pass the course.

3) Bonus Woodturning – (Bowl, rolling pin)

This is to be designed by the student. The student will have the chance to use the wood lathe to further his/her experience in using the machines of the woodwork shop.

MATERIALS and FEES

The range in cost of wood is significant. Because of this, students using wood other than the base materials will need to pay the additional costs. This cost could range from an additional \$5 to \$40 depending on the type of wood used. Please refer to the website about material costs.

THEORY:

This is an integral part of the course if a student wishes to be successful. Although less time is spent on theory work, students should be aware that it is still a very important part of the course. The theory portion mark consists of;

- 1) Safety Quizzes - Given to ALL students before they can use a machine. They MUST achieve 80% or better before they can use the machine.
- 2) Daily Demos - Daily demo on tools, safety, etc will be given throughout the course. Daily demos could be quizzed on.
- 3) Assignments - Given throughout the year for reinforcement of key concepts in the course.

COURSE EVALUATION

Assignments/Projects	80%
Theory	20%