



## **Applied Skills – Wood 8** **Course Overview**

Applied Skills 8 is one of three rotations introducing students to the five Technology Applied Skills courses offered at North Surrey Secondary: Auto, Drafting, Electronics, Mechanics and Wood. Students will be introduced to some fundamental wood processes using basic hand and power tools to design and build selected projects. Students will have the opportunity to modify designs and add their own "personal touch" to the projects.

### **OUTCOMES**

It is expected that students will:

- demonstrate confidence and positive attitudes when solving problems that arise during the design process
- work with others to solve problems that come up during the design process
- produce initial concept sketches and final drawings using a design process
- develop two- and three-dimensional graphics using manual and computer-assisted processes
- solve problems that come up during the design process by using various information sources
- select materials based on a set of design specifications
- apply finishes and details to manufactured products to enhance their appearance and durability
- identify ways to minimize waste and reuse products
- demonstrate safe work habits when using tools, equipment, and technical processes
- construct devices that are powered in various ways

Student input is essential in order to make this course fun, interesting and relevant. Therefore, your participation and ideas for projects or just ways to make this class more relevant are always welcome.

### **Topics of study:**

- Design process
- Wood and wood product identification
- Measurement: imperial and metric
- Safety and the operation of hand tools, stationary and portable power tools
- Joinery
- Adhesives
- Abrasives
- Finishes
- Material Resources: maintenance and management
- Individualized and group work
- Shop maintenance

## **SUPPLIES**

Each student will be required to bring the following supplies to each class:

- Binder / Duo-Tang with lined paper
- Pen (red and blue)
- Pencil
- Eraser (white)

## **SAFETY:**

Safety is an essential part of this course as well as a lifelong learning process. Students should be able to work safely and cooperatively with other students. As well, students will be expected to know how to conduct themselves in a safe manner and to use all equipment in a safe manner. Safety lectures, demonstrations and tests must be completed before using any portable power tools or stationary equipment.

## **CLASS POLICY:**

1. Individual Learning – Student learning is directly influenced by the choice of projects, desire to learn, and effort put forth. Therefore, it is expected that students are present and ready to work every class, participate in class and vigorously pursue completion of their own projects.
2. Material Overruns – Each student will be given an allotment of material for each project for the duration of the course as the course progresses through the semester. If your project exceeds this limit, you will be responsible for paying the difference of the cost of the material.
3. Independent Projects – All independent projects need to be presented with a plan or rough sketch (including dimensions) and a Bill of Materials and submitted for teacher approval. Once approved, students must pay for the material: *Payment should be by cheque made payable to "North Surrey Secondary"* before work begins.
4. Waste – All material must be accounted for. Therefore students are required to maintain an accurate log of material used.
5. Material Choice – If you wish to use a material that is not available in the shop, you are responsible for purchasing the material independently.
6. Supplemental material - A supplemental material fee may be collected for upgraded or independent projects. This applies to projects if you want to upgrade, enlarge, or just build a different project.

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### **ASSESSMENT:**

To successfully complete the course, students must:

- complete **All** safety tests achieving mastery (100% correct...before use of the appropriate equipment)
- complete **All** prescribed project to an acceptable quality (Based on assessment rubric outlined in class)
- submit **All** assignments prior to the last defined class due date

The course assessment will be based on *Assessment for Learning* in three categories:

- **Theory:** Safety, processes, and procedures
- **Practical:** Safety, completed projects
- **Class work:** Safety, shop production, maintenance and cleanup

Assessment for each of the above categories is based on 4 classifications:

- (N): Not Meeting Expectations: Have not met design specifications  
- Incomplete - many flaws, quality not evident
- (A): Approaching Expectation: Beginning to meet design specifications  
- Incomplete/Complete, some flaws, some quality evident
- (M): Meeting Expectations: Completed to design specification  
- Complete - some flaws, quality evident
- (E): Exceeding Expectations: Completed to design specification, extremely high quality  
- Complete - no flaws, extremely high quality evident

Each project will have an assessment rubric with clear definitions of each category. At the time of completion and the project is submitted to the teacher and Assessment will be given (N, A, M, or E). There will be no (%) percentage mark given. At the end of the semester each student will be given a final mark (letter grade or %) based on their accumulated (Project, Theory and Classroom Work) Assessment.

Individual and group learning can be extended to include additional project(s) and / or extra-curricular effort.

***Have Fun!***

Mr. Pinto

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