

Salisbury Composite High School
Building Construction 20 2015
Course Outline

Instructor, Mr. A. Breitkreuz
B. of Ed., Industrial Education

Building Construction 20 is a senior level course that focuses on higher level skills and knowledge as related to the design, construction and fabrication of wood and related materials. The student must realize that safety is our first and highest concern. Our secondary but very important second concern is quality of workmanship and product. Construction 20 offers a number of options for students to pursue. It is expected that students will choose their module path within 10 days of the course starting. Students will be expected to choose at least 5 modules for completion.

Please refer to Mr. Breitkreuz's eTeacher page @ Salcomp.ca for other information and to look at previous student project pictures

Students will need the following to participate in the class::

1. This course outline signed by a parent or guardian.
2. A correctly completed EIPS/SAL safety contract signed by parent or guardian, as well as the student.
3. A signed computer agreement form.
4. 1 pair of basic safety glasses. ANSI 787.1 standard is required. Students may purchase from the school for \$5 ea. \$12 for a pair that fit over larger eyeglasses
5. Pencils and a Duotang with about 20 sheets of paper.

Important information for Parents:

Shop Fees:

Shop fees go toward purchasing expendable such as glue, sandpaper, finishes, and some materials. Unfortunately, due to the economic circumstance (significantly rising lumber price, low CDN dollar), we are not able to cover all the materials for the course. As such, once the student has used up their allotment of material, they must PRE pay for material using our best estimate before proceeding on the projects. In construction 20 this could be between \$50 and \$250 depending on the project or number of credits, as well as the type of materials and projects chosen. Invoices will be written, they will be paid in the office, and receipts will be issued. Students wishing to complete the 6th and 7th credits will be charged for all materials before proceeding. All hardware, hinges, clasps, and specialized screws and nails will be billed, including shipping. If mistakes are made and further material is required, it will also be invoiced. Some single Construction 20 level projects can range up

to about \$60 for one module. Example: Cajon Drum Box with on/off snare: \$60 Electric Guitar: \$200 to \$600 Single cabinet with draw and door. \$40 to \$160, depending on size and type of material and hardware.

Classroom Procedures:

Students will be expected to be on time, and prepared for class with Their safety glasses, pencils, books and closed toes shoes. Students who do not have their material will be considered unprepared for class.

Students are expected to work on their work or projects in a safe and respectable manner. Homework deadlines must be met. Cleaning up is actually 10% of each module mark, and ensures a safe work environment.

Modules available:

CON2120: MULTIPLE MATERIALS Students develop a product that incorporates two or more types of material in its construction. *Prerequisite: CON1120: Product Management*

CON2130: FURNITURE MAKING 1 (BOX CONSTRUCTION) Students develop basic joinery skills and knowledge related to case construction by producing a box-type piece of furniture. *Prerequisite: CON1120: Product Management*

CON2140: FURNITURE MAKING 2 (FRAME & PANEL) Students use solid and/or composite materials to build a frame and panel product or component. *Prerequisite: CON1120: Product Management*

CON2150: FINISHING & REFINISHING Students use knowledge of finishing materials and finishing techniques apply new and replacement finishes. *Prerequisite: CON1010: Construction Tools & Materials*

CON2160: CABINETMAKING 1 (WEB & FACE FRAME) Students apply web and face frame construction techniques and use solid and/or manufactured materials to produce a built-in or modular cabinet. *Prerequisite: CON1120: Product Management*

CON2170: CABINETMAKING 2 (DOOR & DRAWER) Students use solid and composite materials to develop skills in building cabinet doors and drawers. *Prerequisite: CON1120: Product Management*

Electric Guitar Building minimum cost about \$200 including finish

CON2120: MULTIPLE MATERIALS Students develop a product that incorporates two or more types of material in its construction. *Prerequisite: CON1120: Product Management*

CON2150: FINISHING & REFINISHING Students use knowledge of finishing materials and finishing techniques apply new and replacement

finishes. *Prerequisite: CON1010: Construction Tools & Materials*

CON2910: CON PROJECT B

Students develop project design and management skills to extend and enhance competencies and skills in other Career and Technology Studies (CTS) courses through contexts that are personally relevant. *Prerequisite: None*

For building and assembly of guitar

Plus 2 other modules

CON2130: FURNITURE MAKING 1 (BOX CONSTRUCTION) Students develop basic joinery skills and knowledge related to case construction by producing a box-type piece of furniture. *Prerequisite: CON1120: Product Management Making a box is required*

CON2920: CON PROJECT C Students develop project design and management skills to extend and enhance competencies and skills in other Career and Technology Studies (CTS) courses through contexts *Prerequisite: None*

Building Construction Path

(Required) CON2130: FURNITURE MAKING 1 (BOX

CONSTRUCTION) Students develop basic joinery skills and knowledge related to case construction by producing a box-type piece of furniture.

Prerequisite: CON1120: Product Management

CON2035: FLOOR FRAMING SYSTEMS Students develop basic framing knowledge and skills associated with the construction of a floor and wall system. *Prerequisite: CON1010: Construction Tools & Materials CTS,*

CON2045: WALL FRAMING SYSTEMS Students develop basic framing knowledge and skills associated with the construction of a wall system. *Prerequisite: CON1010: Construction Tools & Materials*

CON2050: ROOF STRUCTURES 1 (FRAMING & FINISHING) Students develop basic knowledge and skills associated with framing and finishing a simple roof system. *Prerequisite: CON1010: Construction Tools & Materials*

CON2060: EXTERIOR FINISHING (DOOR, WINDOW & SIDING) Students apply and develop basic knowledge of door, window and siding systems and of installation skills and procedures. *Prerequisite: CON1010: Construction Tools & Materials*

CON2120: MULTIPLE MATERIALS Students develop a product that incorporates two or more types of material in its construction. *Prerequisite: CON1120: Product Management*

Evaluation: Varies by Module or Course:

CON2130: (required) Has a high component of written work 60% written, and 40% practical. All others: 70% practical, 30% written. There is a formative component for each module. Practical is based on project mark, as

well as student's shop work: including organization, time management, use of tools, working collaboratively, and responsibility.

If you have any questions or concerns, please feel free to call me at 780-467-8816 ext. 5735 or email me at aaron.breitkreuz@eips.ca

I am looking forward to a great year in Building Construction 20.

Sincerely:
Mr. A. Breitkreuz
Building Construction Instructor
Salisbury Composite High School

Student Name: _____

Parent Guardian Name: (please print): _____

Parent Signature: _____