Construction 10/20/30 – Course Outline

Weber 2014 Semester 2

\*\*TUESDAY/THURSDAY and alternating FRIDAY\*\*

**Marking Breakdown**

25% - Performance and Safety

25% - Theory

25% - Lab Work

25% - Module Product/Final Project

**Student Expectations:**

All students are expected to work diligently and safely at all times. Safety in the workshop is of the utmost concern. If at any time a student is compromising the safety of themselves or of others, they will be removed from the shop. Continual infractions of this kind will result in permanent removal from this course.

Respect for self, equipment, instructors and other students is also an extremely important part of the workshop environment. Violators will be dealt with immediately and potential for administrative involvement is possible.

Construction 10 – 3 Credits

**Rationale**:

Construction 10 students will develop a deep understanding of shop safety and worksite safety. They will learn about simple hand tools and work towards creating products of high quality and craftsmanship.

**Modules**:

CON1010 – Construction Tools and Materials

* Description: Students develop basic hand tool and production skills to transform common building materials safely into useful products.

CON1130 – Solid Stock Construction

* Description: Students develop basic hand and power tool skills to build a product made from solid wood.

CON1120: Product Management

* Description: Linked to CON1130 and CON3130 as a pre requisite
* Drawing detailed plans for project

CON1180 – Mould Making and Casting

* Description: Students apply knowledge of casting and moulding materials and processes to prepare a mould and produce a casting

Construction 20 – 3 Credits

**Rationale**:

Construction 20 students will develop a deep understanding of craftsmanship and advanced worksite safety. They will learn about advanced power tools and wood lathe as well as a review of hand tools and work towards creating products of high quality and craftsmanship.

**Modules**:

CON2035: Framing Systems – Floor

* Description: Shed or playhouse project

CON2045: Framing Systems – Walls

* Description: Shed or playhouse project

CON2050: Roof Structures

* Description: Shed or playhouse project

Construction 30 – 3 Credits

**Rationale:**

Construction 30 students will develop a true understanding of building structures and advance finishing techniques. They will learn about components of building structures and develop a deeper understanding of the importance of maintaining tools in a construction/shop setting.

**Modules**:

CON3030 – Wall and Ceiling Finish

* Description: Insulate, poly, drywall, mud and tape shed or playhouse

CON3130 – Leg and Rail

* Side table project
* Project prepared and planned with completion of CON1120\*\*

CON3120 – Tool Maintenance

* Lean how to maintain shop tools and shop itself
* Research honing angles for hand tools
* Plan and build safety design for a tool (push stick)

I look forward to a having a successful and safe semester for with all students!

Mr. Tyler Weber

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