Blacksmithing syl. JF 2017-18

**BLACKSMITH I: (beginner)**

 **I a first semester 15 weeks**

**(I b second semester 17 weeks)**

**1 intro-pre test photos**

 **2 S -hook**- A beginner project, it covers the basics of blacksmithing and builds essential skills safety and shop rules, metal info. Budget.

**3 cont**

4 cont

5 cont .

 **6 Full hoop**- Harder than it sounds, it will teach how to fully curve objects, and tong placement.

**7 cont**

**8 cont**

**9**  **Hooked stand**- Incorporates elements of both previous projects, and forms a useful gadget by itself or combined with the full hoop into a standing hand towel holder.

**10 cont**

**11 cont**

**12 review and post test phtos, clean up shop**

 **Second semester Blacksmithing 1 b 17 weeks**

**1 pre test photos**

**2 Continue with Hooked stand**

**3 continue and finish**

**4 written review of skills**

 **5 Viking arm band**- Incorporates elements of all three previous projects, on a much smaller scale and introduces size tolerances.

**6 cont**

7 cont

8 cont

9 critique

**10 Open lab**- A time for students to apply what they've learned on projects of their own.

**11 prepare sketch of open lab item for approval**

**12 prepare budget for item and select materials**

**13 cont**

**14 cont**

**15 cont**

**16 Prep item for Open House demo…..(poster)**

**17 Open House demo**

**BLACKSMITH II: (Intermediate) IIa first semester (IIb second)**

 **1 intro, review studio rules and safety info-see instructor notes**

**2 Tongs-** An essential tool for blacksmiths, two differing pairs will be made.

3 cont

4 cont

5 cont

6review and class critique

**7 Cutting chisel**- The first introduction to high carbon steel, temperature control, and quenchant.

8 cont

9 cont

10 cont

11 review and discussion/plan for field trip

12 **Field trip-** If possible, students will be taken to the scrap yard to find their own material and work to forge it into their own hammer.

13 commence work

14 cont

15 review and photo

**Second semester intermediate……Blacksmithing II b**

**1 review and intro for second semester.**

**2**  **Fire rake-** If the field trip isn't possible, or high carbon steel cannot be acquired, students will make this tool used to move coal around the forge, indispensable for fire control.

3 cont

4 cont

5 cont

6 review and plan for charcoal production

7 **Open lab-** A time for students to apply what they've learned on their own projects, twice as much time as blacksmith I.

8 open lab sketch/plan for approval

9 cont

10 cont

11 cont

12 cont

13 cont and/or second item/improved first

14 cont

15 cont

16 prepare shop for Open House

17 Open house Demo

**BLACKSMITH III:** **(Advanced)**\* IIIa and second semester IIIb

 IIIa 15 weeks

1 intro plan and review, see instructor notes

2 **Upsets-** Also called a true upset, this is a square corner rather than a rounded corner.

3 cont

4 cont

5 cont

6 cont and put to use

7 review and critique

8 **Tenons-** This is forging the end of a bar into a dissimilar size and shape without leaving a shoulder on the parent bar.

9 tennon plan

10 tennon construction

11 cont

12 cont

13 cont

14 finalize projects

15 critiue and post test photos.

III b 1 weeks

1 Intro and pre test photos

2 budget and materials responsibilities.

3 **Riveting**- Assembling both halves of their project together into a trivet.

4 cont

5 cont

6 cont

7 review and critique

8 **Open lab**- After a full year we hope you've come up with a project of your own to work on here. The same amount of time given for Blacksmith II.

9 Open lab sketched plan with budget and materials list

10 cont

11 cont

12 cont

13 cont

14 cont

15 completion and review/critique

16 Open House clean up and demo plan

17 Open House demo.