**Semester(s) offered:   Spring   2019**

**Berrien Springs Parent Partnership**

**Independent Study/Project Based Learning Course Description and Syllabus**

**Course Title: Hand Forged Hooks and Hangers**

**Ages/Grade Levels: Ages 13 yrs and up or prior blacksmithing experience**

**Class size: Min: 2 per meeting Max: 4 per meeting**

**Location Name: Guimond Metal Art Studio**

**Location Address: 04160 County Road 689**

 **South Haven, MI 49090**

**Provide directions to location if necessary:**

**Start Date: \_\_\_TBA\_\_\_\_\_\_\_\_\_\_
End Date: \_\_\_TBA\_\_\_\_\_\_\_\_\_\_\_** (Must be at least 16 hours of instructional time)

**Day of the Week: Circle: M Tu W Th F To be arranged with students**

**Begin and end time of class: \_\_\_\_\_\_TBA\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Contact/Instructors: Ted Guimond**

**Email and Website: tguimond@comcast.net**

**Best phone #: 269-767-4600 Publish # on website? Y**

**Does the student also need to register with you or at your location? Y**

**Classes will be (circle one): Pass/Fail**

**What is the criteria for passing the class? 80% on written test + satisfactory completion of projects.**

**Briefly describe the course, including topics to be covered and subject areas that the course will cover –this is what will be posted on our website:**

**Class Description:** Students will use forges, hammers, anvils, and various blacksmith related tools while learning and practicing the blacksmithing skills of hand forging, drawing a taper, twisting, scrolling, bending, splitting, drilling, joinery, and forging decorative elements while making several hand hooks and hanging devices for use around the home .

Proposed projects include: “S” hooks , coat hooks, plant hangers, oven rack puller, banana stand, door latch hardware, toilet paper holders, and a towel bar. Students may complete more or fewer projects depending on their personal ability.

**Weekly breakdown of instruction:** *The full class will consist of eight two hr sessions.*

Week 1: Learn shop safety. Forge “S” Hooks.

Week 2: Review safety, Forge an oven rack puller.

Week 3: Forge 3 coat hooks.

Week 4: Forge banana stand.

Week 5: Forge Plant hanger

Week 6: Forge door latch hooks

Week 7: Forge Bathroom towel holder to match TP holder.

Week 8: Forge bathroom TP holder with at least two decorative elements.

**All classes must have a min. of 4 Course Objective Checkpoints unique to your class. You will note on the attendance sheet when students have met these objectives. Write in #’s 2 and 3:

1st: pre-test**

 **2nd: Continuous attendance in class and satisfactory completion of projects through midterm date**

**3rd: Continuous attendance in class and satisfactory completion of projects through ending date**

**4th: post-test and satisfactory completion of all projects**

**List any materials that students are required to bring to class:**

* Students should always wear closed toe shoes (preferably leather)
* natural fiber clothing (100% cotton shirt and jeans).
* Pencil and notebook

**List any required or optional online resources you will use in class:**

* none

**Final Project: Circle method(s) of evaluation resulting in a percentage improvement score**

* Students will have actively engaged in class participation.
* Students will score a minimum of 80% on the final test. (same questions as on the pre-test).
* Students will satisfactorily complete all projects assigned to them.

**Please attach:**

**One 10 question (multiple choice, T/F, or open ended) pre/post-test to be given the first and last week of class that will assess knowledge of subject(s) covered in class during the semester. Scores must be recorded on the attendance form provided.**

**Cost per student for entire semester, including materials and supplies:**

**$20 per hr per student X 18 hr = $320.00 + $40 per student material fee = $360.00**

**Guimond Metal Art Studio requires that at least adult representative from each class remain with the class to provide instructor with “two deep leadership” for safety and liability purposes. Parents to work this schedule out among themselves.**

**Hand Forged Hooks and Hangers PRE/POST TEST**

**1 Name at least three pieces of *required* blacksmith shop personal safety equipment..**

**2 How should you notify other people in the shop that you are going to put hot metal in or take hot metal out of the forge? Tell about both.**

**3 What is a safe way to pass hot metal to another person?**

**4 What is drawing a taper?**

**5 What processes are used to make an “S” Hook?**

**6 What is a decorative element?**

**7 Name at least three decorative elements in blacksmithing.**

**8 What is scrolling**

**9 What are tongs used for in blacksmithing?**

**10 Name the fuel used in a coal forge and a gas forge.**

**Hand Forged Hooks and Hangers PRE/POST TEST with answers**

**1 Name at least three pieces of *required* blacksmith shop personal safety equipment..**

**A** natural fiber clothing, leather closed toe shoes, ear protection, eye protection.

**2 How should you notify other people in the shop that you are going to put hot metal in or take hot metal out of the forge? Tell about both.**

**A** When moving hot metal, survey the shop to see where others are located. Then say in a loud voice, “HOT METAL” to announce your intention to move when your path is clear.

**3 What is a safe way to pass hot metal to another person?**

**A** Keep your hand on a safe place on the metal leaving enough cool metal protruding below your hand that another person may grasp the cool metal. If that is not possible then use tongs and pass the person the tongs. Do not release the metal until the other person says, “THANK YOU” to indicate that they have control of the hot metal.

**4 What is drawing a taper?**

**A** Stretching and tapering metal by hammering.

**5 What processes are used to make an “S” Hook?**

**A** Hand forging, drawing out a taper on each end of the rod, form a hook on each end.

**6 What is a decorative element?**

**A** Designs or decorative embellishments added to forged work to make it more interesting or appealing.

**7 Name at least three decorative elements in blacksmithing.**

**A**  Twists, hammer marks, leaves, punch marks, feathers, chisel designs…

**8 What is scrolling**

**A** Making a decorative element by forming an end of a rod into a curl.

**9 What are tongs used for in blacksmithing?**

**A** Tongs are used to hold items that are too hot to hold in the bare hands.

**10 Name the fuel used in a coal forge and a gas forge.**

**A** Coal is used in a coal forge. Propane or natural gas is used in a gas forge.