

# Berrien Springs Partnership Lab Syllabus and Instructor Qualifications

**LABS (CLASSES) ARE PROVIDED AS AN EDUCATIONAL SOURCE FOR PBL (PROJECT BASED LEARNING)**

## **COMMUNITY CLASS TITLE: Blacksmithing Fundamentals**

GRADE OR AGE LEVELS: 5th Grade/ 10 years of age or requires instructor permission

FORMAT: **IN-PERSON** ~~ONLINE~~

DAY AND TIME OF THE WEEK: TBD with Students Families

TOTAL REQUIRED HRS: 16 Hrs. ADD'L POSSIBLE HRS (OPTIONAL TIME): 4 Hrs.

TOTAL SEMESTER HOURS POSSIBLE: 20 Hrs.

LOCATION (address):

Wolf Prairie Historic Arts, LLC  
7150 Old Pipestone Rd, Suite A  
Eau Claire, MI 49111

PRIMARY INSTRUCTOR: Henry E. Davis

- list additional instructors that will be background checked:

Ted Guimond

Dennis Kuemin

Steven Eisele

Note:

Minimum Class Size 2 Participants + 1 parent

Maximum Class size 4 Participants + 1 parent

### **Blacksmithing Safety Notice**

Interested in the blacksmithing — even just to observe?

Safety is important to all of us. Wear clothing made from natural fibers, like cotton, wool, leather, etc. Due to their inherent flammability, manufactured fabrics like nylon, spandex, polyester, etc. can significantly increase the tissue damage caused by a burn if something hot lands on it.

Attire:

- Natural Fiber clothes.
- No cuffs.
- No Jewelry

- No shorts, period.
- No open-toed shoes or shoes with holes in them.
- No sandals or crocs.
- Long sleeves preferred.
- If your hair is longer than 6 inches, please bring a secure way of tying it back.
- Tong on Glove hand is recommended for gas forges, but optional.

We will provide

- Personal eye protection: safety glasses or goggles.
- Personal hearing protection: ear plugs or sound reducing head gear.

Students should provide

- Personal Water
- Personal Snacks

Please Note: To come within the safety perimeter, even just to watch or take pictures, you must have appropriate attire (above list with the addition of the safety glasses we provide).

**CONTACT INFORMATION:** phone: (574) 274-0633

email: [HDavis@AppliedInnovation.com](mailto:HDavis@AppliedInnovation.com)

website: Under Construction

ADDITIONAL REGISTRATION AT SITE REQUIRED? YES ~~NO~~

IF YES, INSTRUCTIONS FOR REGISTRATION:

Please contact me via email [HDavis@AppliedInnovation.com](mailto:HDavis@AppliedInnovation.com) to arrange a class time.

Because I still work full time plus, so this fall semester we will only be having classes on Sunday and Monday-Thursday in the evenings.

INSTRUCTOR QUALIFICATIONS (may attach a separate page if necessary):

COURSE DESCRIPTION (OVERVIEW):

Our blacksmithing fundamentals class focuses on developing the skills taught in the globally recognized curriculum through ABANA (Artist Blacksmith Association of North America). However, the focus is not on completing a checklist of requirements but on developing an understanding of the how and why as a foundation for a lifetime of enjoyment of blacksmithing.

## SYLLABUS/OUTLINE: WEEKLY BREAKDOWN OF PROJECT-BASED LEARNING LAB

### ACTIVITIES

*Describe activities that will reinforce the lesson. Include any work and time to be required outside of class:*

**Weekly breakdown of instruction:** There will be eight two hour sessions. Classes will involve discussion of shop safety, forging demonstration(s) by the instructor, and student creation of hand forged items. Frequent water breaks are suggested. A 10 min break will be taken half way through the class for drinks and snacks.

Tentative schedule and projects:

Week 1: Discuss shop safety. Practice “drawing a taper” by forging “kabob skewers”.

Week 2: Review shop safety. Forge one or more square nails and turn one into a key fob.

Week 3: Forge an “S” hook from square stock, add decorative twist and end finial.

Week 4: Forge twisted candle holder. (also known as a “courting candle”)

Week 5: Forge “letter opener” with handle twist and hook final decorative elements.

Week 6: Forge a “coat hook” with a leaf motif decorative element.

Week 7: Begin forging and fabricating an “Iron Puzzle”.

Week 8: Finish the “Iron Puzzle”.

Schedule and projects will be adjusted depending on student skills and needs.

### COURSE OBJECTIVES AND APPROXIMATE TARGET DATES:

*Steps to check for student understanding, along with dates or # of weeks into class:*

**STUDENT ASSESSMENT - what will be used to evaluate student progress and/or end of semester pass/fail status?**

- 1) Student agrees to attend at least 80% of class sessions/lessons offered.  
Attendance is kept online and tracked by Partnership staff. Failure to meet 80% or be on track to meet 80% may result in program discontinuation.
- 2) The Partnership Student Assessment or Performance Form is filled out by the teacher and turned in to Partnership staff. The link to this form is found on the web page for this class. Failing marks for lack of participation, behavior issues, practice time, etc. may result in program discontinuation.
- 3) Other: Photos of Finished Projects will be provided to Partnership Staff.

**Class-specific assessment:** discuss and include any form or a link to a form that you use.

**ADDITIONAL RESOURCES:** (online, books, video, etc.):

**CLASS POLICIES: ATTENDANCE, BEHAVIOR, WEATHER, ETC.**

**Attendance:** Blacksmithing is a hands on experience so 80% attendance is required to finish the class. We understand that life happens, and will do our best to work with you to make up time that you miss

**Weather:** Your safety is of the utmost importance, if you are worried about road conditions please call. If school is closed, attendance will be optional and a make up

**time will be arranged.**

**Other: No Horseplay, No bullying, No threats**