



## TBSI 2786

**Division:** Career and Technical Education

**Department:** Traditional Building Skills Institute

**Course:** TBSI 2786

**Title:** Traditional Architectural Blacksmithing II

**Catalog Description:**

This course is a workshop for teaching traditional building skills of architectural blacksmithing at a more advanced level than TBSI 2636. The course includes artistic design, collaring, mounting foot, up set square corner, tenons, rivet heads and several scrolls like bevel, fishtail, half penny and ribbon. This course also exposes students to jigs and specialty tools along with lap and drop tong forge welding. Students will meet for a three hour lecture preceding the three day workshop.

**General Education Requirements:** N/A

**Semesters Offered:** TBA

**Credit/Time Requirement:** Credit: 1.5; Lecture: 1; Lab: 1

**Clock/Hour Requirements:** 0

**Offered for Non-Credit:** Yes

**Credit/Clock Comments:** Repeatable for credit

**Prerequisites:** TBSI 2636 or instructor

**Corequisites:** N/A

**Justification:**

This course is being provided in response to an increased interest in traditional blacksmithing. The skills learned in this course can introduce one to an avocation and/or vocation. This course is endorsed by the TBSI Advisory Board.

**Student Learning Outcomes:**

Upon successful completion of this course, students will be able to do the following in blacksmithing:

- collaring, mounting foot, up set square corner, tenons, rivet heads and several kinds of scrolls
- design and fabricate jigs and specialty tools
- fabricate a framed scroll work

**Content:**

This course will include:

- Introduction:
  - artistic design for blacksmithing
  - Tools and materials
    - the use of forges
    - scroll wrench and chisels
    - collar mandrel and collar bottom tool
    - rivet heading plate and top tool
    - tongs: scroll, open and flat jaw
  - The fabrication of metal/ironwork
    - the designing of jigs and specialty tools
    - layout and fabrication of scroll framed work
    - iron forging skills in lap and drop tong weld

### **General Education Outcomes:**

### **Applied Education Outcomes:**

1) Students will acquire entry-level skills specific to and appropriate for employment in their chosen field of study.

This course teaches advanced level skills for blacksmithing. Students demonstrate mastery of skills while working on projects under the supervision of top craftsmen in the field.

3) Students will demonstrate safe practices and awareness of potential hazards in their field of expertise.

An initial safety orientation and safe practices are emphasized during the course under instructor supervision

### **Key Performance Indicators:**

- assessment of acquired skills in architectural blacksmithing by instructor(s): 80%
- attendance and attitude:
  - 10 points per day will be given for attendance and showing up on time
  - 10 points per day will be given on attitude which includes willingness to participate and follow instructions: 20%

Percentages are approximate.

For ongoing improvement of the course, instructors will be assessed by participants.

### **Representative Text and/or Supplies:**

- Jack Andrews, *New Edge of the Anvil*, SkipJack Press. current edition.
- Peter Parkinson, *The Artist Blacksmith*. current edition.



**Signatures:**

I hereby submit this course syllabus:

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I hereby find this course consistent with the goals and resources of the Traditional Building Skills Institute Department:

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Woodruff Challis, , , Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

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Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

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Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)