Blacksmithing
Art 475 H
Fall 2021 – Course Syllabus

Fort Hays State University
Instructor: Tobias Flores
Student Assistant: none
Credit Hours: 3
Location: CATS Building, Room 110
Time: Monday and Wednesday - 3:30 PM to 6:20 PM
Office Hours: Mon. & Wed. 10:00-12:30, Tue. & Thu. 4:15-5:15
Email: trflores@fhsu.edu
Phone: (785) 628-4302

Scope:
This course will cover fabrication and blacksmithing practice for means of making functional and nonfunctional objects. The course will cover basic techniques for welding, cutting, forging, cold and hot fastening and finishing of steel only. Proper tool use and safety will be a priority.

Requirements:
All students will complete a variety of wall hooks, a fork, a spatula, 2 double wall hooks, one linear project, one sheet metal project, several samples of welding and forging, and a design portfolio. The design portfolio contains: research notes, sketches, research photos/copies, demonstration and lecture notes, thumbnails, technical drawings, models/templates and a self critique. Students will have to work outside of regular class time to complete these projects. These projects and processes are subject to change. The $180 studio fee pays for but is not limited to: a hammer and hammer handle, Hearing Protection, steel, propane, coal, rivets and other hardware, grinding discs, cut-off wheels, sand for sand blaster, other abrasives, gasses for welding, craft paper, hack-saw blades, hand tools, photo-copies and first-aid supplies.

PS: No chewing Tabaco or sunflower seeds in the sculpture studio or in the breezeway.

Things you will need, by next class and everyday:
Safety glasses, Proper attire, dust mask, hammer, leather gloves, 2 Ziploc bags for your hearing protection and dust mask, text book (A Blacksmithing Primer, By Randy McDaniel), water, snack (optional), sketchbook, pencils, silver streak pencil, sharpies.

Final Exam: Wednesday, December 15, 2021, 3:30-5:10

Proper Attire:
Metalworking is inherently dangerous. You will be working in close proximity to open fire, hot objects, heavy tools and power tools. You will dress appropriately or you will be asked to leave. Do not roll up sleeves or cuff pants. Remove all flammable and readily combustible materials from your pockets, such as matches and cigarette lighters. Remove cell phone from pants pocket. Keep all clothing and protective apparel completely free of oil or grease. No synthetic clothing, no open toed shoes, no jewelry, no long hair not tied back, no pants with large holes. Leather boots with steel toes, jeans and long sleeve cotton shirts are recommended. Safety glasses will be worn at all times.

Reference Materials:

- "The Complete Modern Blacksmith", by: Alexander G. Weygers, ISBN 0-89815-896-6, Ten Speed Press, 1997.

- "The Blacksmith's Cookbook Recipes in Iron", By: Francis Whitaker, ISBN: 0-939415-00-3, Jim Fleming Publications, Vail, Colorado, 1986.

- "Hand Forging and Wrought-Iron Ornamental Work", By: Thomas F. Googerty, 1911, Reprinted by Lindsay Publications Inc., ISBN: 1-55918-336-5.

- "Sheet Metal Drafting", By: Ellsworth M. Longfield, McGraw-Hill Book Company, INC., New York, 1921.

- "Blacksmithing. A Manual for Use in School and Shop", By: R.W. Selvidge and J.M. Allton, The Manual Arts Press, Peoria, Illinois, 1925.

- "The Contemporary Blacksmith: By: Dona Meilach, ISBN 0764311069.

- ABANA, Artists-Blacksmith's Association of North America, INC., www.abana.org

- Blacksmith's Journal, A Manual Journal of Illustrated Techniques, www.blacksmithsjournal.com

Materials, Tools, and Equipment:

- www.blacksmithsdepot.com
  tools, coal, equipment, books

- Salina Steel Supply Inc.
  234 East Avenue A, Salina, KS 67401, (785) 825-2138
  Free delivery over $250 purchase.

- Leon's Welding & Fabrication
  1027 E Hwy 40, Hays, (785) 625-5736
  Steel, powder coating, sandblasting

- **Steel Fabrications Inc.**
  1640 E Hwy 40, Hays, (785) 625-3075
  Steel, machine shop, CNC cutting

- Lampton welding Supply Co. Inc.
  1039 E Hwy 40, Hays, (785) 625-9310
  Personal safety equipment, Extra Small Gloves, abrasives, tools, Leather Aprons

- Oldham Sales Inc.
  1000 Allen, Hays, (785) 625-2547
  Personal safety equipment, tools, custom spray paint

- Heartland Building Center
  2510 General Hays Rd., Hays, (785) 625-6554
  Personal safety equipment, tools, lumber, rebar

- Custom Ornamental Iron Works Limited
  Customironworks.com, (602) 275-2551
  2625 East university Drive, Suite C, Phoenix, AZ 85034
  wrought iron, ornamental iron, cast iron, and aluminum gate and stair parts and accessories. Gate hardware.

Grading:

Grades will be based on attendance (10%), Projects (70%), tests (10%), and your design portfolio (10%). These percentages are approximate and subject to change.

Shop Rules for a cooperative studio:

- If you open it, close it.
- If you turn it on, turn it off.
- If you unlock it, lock it up.
- If you break it, admit it.
- If you can't fix it, call someone who can.
- If you borrow it, return it promptly.
- If you value it, take care of it.
- If you make a mess, clean it up.
- If you move it, put it back.
- If it belongs to someone else, get permission to use it.
- If you don't know how to operate it, leave it alone.

- Wayne Potratz

Concealed Carry Policy:

Under the Concealed Carry Policy, individuals who carry a concealed handgun must have the handgun on or about their person at all times. Backpacks are appropriate for a carrying a handgun as long as the backpack remains within the exclusive and uninterrupted control of the individual. A backpack or other bag used to carry a handgun must be within the immediate reach of the individual. In this course, the instructor may require students to place backpacks or other bags out of reach. The instructor will notify students in advance of this requirement so a student who carries a concealed handgun in a backpack or a bag may take steps to conceal the handgun on his or her person before arriving or otherwise plan accordingly. Alternatively, this course involves a lab where metal and/or explosive devises (ammunition) are prohibited by Federal Regulations due to the nature of the lab and for safety concerns. Concealed carry handguns will need to be properly stored prior to such labs.

Writing Center

The Writing Center is an excellent place to go for feedback on any kind of writing at any stage of the process. Located in the Forsyth Library on the main floor, the Writing Center features trained writing consultants who can help you with all aspects of your writing assignments. Drop by or make an appointment online in advance at https://www.fhsu.edu/writingcenter/—preferably well before the due date of your paper! The Writing Center is open 9:00am-8:00pm Monday-Thursday and 9:00am-2:00pm Friday. It's FREE.

11. UNIVERSITY POLICIES

11.1. Academic Honesty Policy
Membership in the FHSU learning community imposes upon the student a variety of commitments, obligations and responsibilities. It is the policy of FHSU to impose sanctions on students who misrepresent their academic work. These sanctions will be selected by appropriate classroom instructors or other designated persons consistent with the seriousness of the violation and related considerations… Students participating in any violation of this policy must accept the consequences of their actions. Classroom instructors and/or university review/appeals committees and administrators will assess the sanctions for violation of this policy. The seriousness of the violation will dictate the severity of the sanction imposed. More information can be found at http://www.fhsu.edu/academic/provost/handbook/ch_2_academic_honesty/

11.2. Statement of Accessibility and Services for Students with Disabilities
If you have a disability that may have an impact on your ability to carry out assigned course work and if you wish to seek any accommodations for this course, you must contact Services for Students with Disabilities (SSD). SSD is located in the Kelly Center, Picken Hall, Room 111, 785-628-4401. SSD will review your documentation and determine, with you, what academic accommodations are necessary and appropriate for you that can be accommodated in this course. All information and documentation of your disability is confidential and will not be released by SSD without your written permission. Students can find more information at http://www.fhsu.edu/disability/get-access/ Instructors who need help to create instructional materials for students with special needs can seek help from Learning Technologies (LT), 785-628-4194.

FHSU is committed to fostering a safe and productive learning environment. Title IX makes it clear that violence and harassment based on sex, gender, and gender identity are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. This includes all types of gender and relationship violence, sexual harassment, sexual misconduct, domestic and dating violence, and stalking. If you wish to report an incident or have questions about school policies and procedures regarding Title IX issues, please contact Amy Schaffer, University Compliance Officer and the FHSU Title IX Coordinator, at alschaffer@fhsu.edu or (785) 628-4175. The Compliance Officer can help connect you to campus and outside resources, discuss all of your reporting options, and assist with any concerns you may have.

11. UNIVERSITY POLICIES *Continued*

11.4. Use of Computing Resources
Fort Hays State University (FHSU) provides computing resources and worldwide network access to its faculty, staff, and students for legitimate administrative, educational, and research efforts. As a member of the FHSU electronic community it is your responsibility to use computing resources ethically and responsibly. Members of the FHSU electronic community are expected to use computing resources ethically, and to exercise reasonable care in utilization of FHSU information systems or their components. More information related to privacy, responsibilities, things forbidden to do and use of email can be found at
http://www.fhsu.edu/academic/provost/handbook/ch_1_computing_resources/

11.5 Withdrawal Policy
Students may withdraw full-semester courses through 11:59:59PM CT on the 35th day of the semester (Learning Technologies (LT) will work with the Registrar's Office and Technologies Services (TS) to make the specific date for each semester available at the syllabus site). Students withdrawing during this time period will not receive any notation on their transcript. Students who withdraw after this period and thru 11:59:59PM CT on the 70th day of the semester will receive a notation on the transcript of withdrawal (W). No withdrawals after the 70th (LT will work with the Registrar's Office and TS to make the specific date for each semester available at the syllabus site) day of the semester. Students who withdraw completely will receive a notation on their transcript of the date withdrawn. Students receiving financial aid have additional responsibility and should contact the Office of Student Financial Assistance, 785-628-4408.
(http://www.fhsu.edu/registrar/academic-policies-and-information/)

11.6. Proctoring Requirements (Virtual College courses only if applicable)
The Proctor Approval Form for the Virtual College courses along with the student's and the proctor's responsibilities can be found at
http://www.fhsu.edu/virtualcontent.aspx?id=12884902424&terms=proctor

While the University is not mandating face coverings in general at this time, the University does recommend and support the wearing of face coverings in alignment with current public health guidance. Additionally, the University's policy on face coverings does allow for some local-decision making by instructors and event organizers. While students in this course are not required to wear face coverings while in the classroom at this time, this rule is subject to change at the discretion of the instructor or as otherwise announced by the University.