COURSE DESCRIPTION
This course will present the student with an advanced level of self-expression, style, and the mastery of the different techniques involved in creating molds for sculptural application. The students are introduced to hot iron and casting methods for use in contemporary and traditional iron designs.

COURSE GOALS:
➢ Students acquire advanced skills and a thorough understanding of molding and the fabrication skills used with various materials in process of casting iron.
➢ Learn how to operating a blast furnace and understand the basic chemical reactions inside the furnace.
➢ Understand how iron is historically situated and utilize this vocabulary in the creation of casting.
➢ Realize the significance of iron to contemporary artists in the field.

COURSE LEARNING OUTCOMES:

Upon successful completion of the course, students will be able to:
➢ Identify the use of multiple materials required in the production of iron casting in sculpture and functional design.
➢ Demonstrate how craftsmanship plays a role in the final results.
➢ Be able to analyze the material/molding processes that works best for their idea in iron and appropriate to the level of study.
Demonstrate a knowledge of historical references in the field of cast iron and apply appropriate information from various sources to create cohesive, persuasive arguments to design concepts.

Assessment and Measurements:

- Participation in the public presentation of the iron pour.
- Through critique the student demonstrate the ability to discuss and explain the various steps involved with casting.
- Create finished works as evidence that the students successfully completed the casting process.
- Students demonstrate how the work is perceive in its historically situated place with the discussion of defined art language and advanced knowledge of this visual vocabulary.

The successful completion of this course will also require that students:
1. Safely operate equipment, understand use the correct technical procedure, and maintain a clean and orderly studio environment with respect for the personal work of others.
2. Read all handouts.
3. Attend all critques and complete all assignments in a timely fashion.

INSTRUCTIONAL METHODS:

This course is a studio and lecture class that provides students with a hands-on approach to creating artwork. The students are expected to work on labs in class after the demonstrations and lectures.

Grading is based on the following criteria:

- Concept: originality, creativity, and effectiveness of the solution.
- Aesthetics: visual impact and beauty.
- Presentation: craftsmanship, the effective use of materials.
- Historical references within the work or in the oral discussions of the process.

❖ “A”-Excellent original idea, creative and effective solution to the problem, superior quality and craftsmanship.
❖ “B”-Above average quality of the above.
❖ “C”-Average expected quality with satisfactory problem solution.
❖ “D”-Poor quality, misunderstanding of assignment and multiple mistakes.
❖ “F”-Yes it is possible to fail an art course by failure to fulfill objectives of assignment, poor attendance, and bad attitudes.

See Grading Policy posted in the studio
Project descriptions will be posted in the studio on the bulletin board; in addition to, any corrections and changes made to the curriculum in the syllabus.

Courses that include plus and minus grades are evaluated by the following breakdown.

A+ = 97%  A=91-96%  A-=89-90%  B+=87-88%  B=81-86%  B-=79-80%  C+=77-78%  C=71-76%
C-=69-70%  D=65-68%  D- = 60-64%  Below 60=F

EXPLANATION OF NB/I/W GRADES

This course adheres to the UAF regarding the granting of NB Grades the NB grade is for use only in situations in which the instructor has No Basis upon which to assign a grade.

Incomplete Grade Policy: “The letter “I” (Incomplete) is a temporary grade used to indicate that the student has satisfactorily completed (C or better) the majority of work in a course but for personal reasons beyond the student’s control, such as sickness, he has not been able to complete the course during the regular semester. Negligence or indifference is not acceptable reasons for an “I” grade.
INSTRUCTOR RESPONSE TIME

Emails are answered within 48 hours during the weekday. You can check your grades with the Professor, Graded materials are available within one week of the midterm and final. Individual project percentages on finished work can be requested within 48 hours of the critique.

ACADEMIC INTEGRITY

As described by UAF, scholastic dishonesty constitutes a violation of the university rules and regulations and is punishable according to the procedures outlined by UAF. Scholastic dishonesty includes, but is not limited to, cheating on an exam, plagiarism, and collusion. Cheating includes providing answers to or taking answers from another student. Plagiarism includes use of another author’s words or arguments without attribution. Collusion includes unauthorized collaboration with another person in preparing written work for fulfillment of any course requirement. Scholastic dishonesty is punishable by removal from the course and a grade of “F.” For more information on Student Code of Conduct go to: (http://uaf.edu/usa/student-resources/conduct).

COURSE READINGS/MATERIALS

A list of suggested readings:

Methods for Modern Sculptors, Young and Fennell, Sculpt-Nouveau.
The Materials and Methods of Sculpture, Jack C. Rich
Complete Casting Handbook: Metal Casting Processes, Metallurgy, Techniques and Design, John Campbell

Supplies student need to purchase:

Additional molding materials beyond the scope and size limitations of the project include:
- Rubber molding material, plaster, sand, wax, rubber gloves, resin for cold cast.
- Additional dust masks if lost or discarded, plastic bucket, rubber spatula, 10-1” disposable paint brushes, Combination lock, sand for iron molds

List of suppliers:
The Complete Sculptor, Inc.  www.sculpt.com All kinds of tools and supplies/
Chavant, Inc.  www.chavant.com Oil based sulfur-free clays
Classic Clay (909) 989-9071 Oil-based clays
USG (Us Gypsum) www.usg.com plaster, gypsum/cement technical info.
Pink House Studios (802) 524-7191 www.pinkhouse.com alginate, body casting material, skin-friendly silicones.
Polytek Development Corp. www.polytek.com wide range of rubber molding materials, resins, a catalog that offers technical advice
Smooth-On, Inc. www.smooth-on.com wide range of rubbers and casting materials
It is the students’ responsibility to make sure they understand the proper procedure in operating equipment before they use it. Equipment should not be used until the professor demonstrates how to properly use the instrument. If demonstrations are missed it is the student’s responsibility to set up a time with the instructor to go over the equipment.

**Assignments:**
The 200-level student will complete one mold and one cast from sand with a flexible material for a pattern.
The 400-level student is expected to complete one mold in iron and one repetitive mold process in a material of choice that will be used in the construction of a final series. At least three objects will be presented as “gallery ready” for the final critique.

**Tentative Schedule:**
Seven hours of lecture materials cover the following subjects: History of Iron, The blast furnace, sand casting, flexible molds, cold casting, combining dissimilar materials and patina. Fourteen hours of lab cover the demonstrations and practice of the above mentioned lectures.

**May-June**
1st day  Hand-outs and introduction “safety minute”
        Lecture: History of Iron,
        Lab: appropriate designs for iron
2nd day  Lecture: sand casting
        Lab: How to mix sand and prepare patterns
3rd-day Lecture: Multiple piece molds and repetition
        Lab: demonstration of draftable molds
4th-day Lecture: Types of flexible molds
        Lab: demonstration on viscosity of materials and flexibility
5th day  Lecture on cold casting
        Lab: demonstration of gel coats
6th day  Lecture: combining dissimilar material
        Lab: physical and welded connections
7th day  Lecture: Blast furnace operations/Patina considerations/
        Critique on Molds
        Lab: spruing and gating demonstration/ binding the molds
8th day  Lab: Iron casts
9th day  Final Critique

**SUPPORT SERVICES**

**UAF Help Desk**
Go to [http://www.alaska.edu/oit/](http://www.alaska.edu/oit/) to see about current network outages and news.
Reach the Help Desk at:
  * e-mail at helpdesk@alaska.edu
  * fax: 907.450.8312
● phone: 450.8300 (in the Fairbanks area) or 1.800.478.8226 (outside of Fairbanks)

**DISABILITIES SERVICES**
UAF is obligated to provide accommodation only to the known limitations of an otherwise qualified student who has a disability. Please identify yourself to UAF Disability Services by applying for accommodations. To be considered for UAF Disability Services accommodations individuals must be **enrolled for at least one credit** as a UAF student. For more information send Disability Services an email at uaf-disabilityservices@alaska.edu by phone at (907)474-5655, or by TTY at (907)474-1827.

**TITLE IX PROTECTION**
Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc. to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook

**Student protections and services statement:**
Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: www.uaf.edu/handbook/