VOLUME 3 • 2017

Wave 3 classes (Through May 21 - currently open for registration)
Wave 4 classes (May 22–June 25 - currently open for registration)

Wave 5 classes (July 8–Aug 13)

Member Registration: May 12
Public Registration: May 26
Dear friends,

By the time you read this, work will be nearing completion on a new entrance sculpture that will welcome students and guests into our 56,000 square foot studio and makerspace. Designed and fabricated by our pre-apprentice team, this is the culmination of a school-year-long project that helps these young artisans learn fabrication techniques and develop hard skills in welding, blacksmithing, and machining along with soft skills such as collaboration, teamwork, accountability, and more.

The Pre-Apprentice Program, a mentoring and job skills development program for ages 18-24, is the culmination of our youth programs that start with youth as young as eight years old. Many graduates of the Pre-Apprentice Program have joined our faculty as teaching assistants and instructors or are pursuing careers that, I’m proud to say, we played a part in introducing to them.

This summer, we’ll introduce new students into this cycle: we have six weeks of youth summer camps (see page 31), running June 19 through August 4. Many of these students will try Crucible programs for the first time... and they’ll be hooked. We’ll see them back again and again, until they become part of a “graduating class” in the years ahead.

Summer camps are also an opportunity for students in our Fuego Youth Leadership Program to deepen their engagement with our faculty and other students. These high schoolers apprentice with a department head and help teach summer programs while developing their art and skills.

These programs are critical opportunities to develop life-long skills in some of our most at-risk youth. But we can’t do it without your support. Crucible scholarship programs cost more than $200,000 each year. Consider making a tax-deductible gift in support of these remarkable young people. Please give generously at TheCrucible.org, or call me to discuss how your support can help with our important programming.

We’re all looking forward to summer camps, when the studio is alive with hundreds of eager students. But don’t forget that we also offer a week of creativity for adults, in the form of our weeklong and immersion workshops (see pages 8-9). Join us to explore working with wood, glass, metal, jewelry, and more.

Don’t have time for a weeklong class? Try a two-hour Friday evening class, or a shorter weekend taster: a great introduction to industrial arts (page 6-7). Come in and make something—and make some new friends while you’re here.

We’ll look forward to seeing you soon!

Best,

David C. Miller
Executive Director

P.S. Many summer camp programs fill up fast: sign up soon for the best selection of dates and classes!
Classes
Crucible classes give you the training and support necessary to succeed. Most classes feature project-based lessons that guide your through creating a finished piece. We utilize a variety of formats, including 10-week, 5-week, and weekend courses. We also offer:

3-Hour Tasters
Tasters are a great way to explore the myriad art disciplines we offer. Not sure which of our incredible classes to take? Want to introduce someone to a new craft? Have an itch to try something different without too much commitment? Take a class with a friend or make new friends here. Try Blacksmithing, Ceramics, Enameling, Foundry, Glass Casting, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. (see page 7)

Friday Flame Classes
End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece (see page 6).

Weekend Intensives
Weekend intensives are a full weekend, Saturday and Sunday, of immersing yourself in a new skill.

Master Classes
Master classes are more advanced classes taught by experts in the field.

Lab Sessions
Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials.

Youth Programs
 Thousands of Bay Area youth, ages 8-18, have attended Crucible classes, camps, workshops, and events. We provide a unique setting for youth to explore their creative voices while absorbing real-life lessons in science, technology, engineering, art, and math.

Classes and Camps
Youth classes are available after school, on weekends, and in Spring and Summer camps. Our classes feature an extremely low faculty to student ratio (often 1:6), and give young artists a chance to experiment with different media, try new techniques, and design and create their own works of art, all within a collaborative environment.

Field trips and Workshops
Field trips last one day, with groups touring our facility, watching live demonstrations, and taking part in interactive activities. Workshops, ranging from a day to eight weeks, provide more in-depth training and frequently involve collaboratively designing and fabricating a community public art project.

Bike Program
Fix-A-Thons, the Earn-A-Bike Program, the Art Bike Camp, and local events contribute to the popularity of our Bike Shop, which introduces youth to bike mechanics, welding, and engineering basics.

Fuego Youth Leadership Program
Paired with an experienced faculty instructor for two summers, each Fuego student progresses from immersive creative classwork to the exploration of possible career opportunities. Fuego positions are paid, and participants work at summer camp teaching assistants, mentor younger students, and provide industrial arts demonstrations onsite and at Oakland cultural events.

Pre-Apprentice Program
The Crucible’s Pre-Apprentice Program, running October-May, teaches a broad range of metalworking techniques, provides opportunities for public demonstration and community site visits, and builds skills through networking opportunities and collaboration on public art projects.

High School Interns
Interns come from selected high schools and work with mentors, staff, and faculty in a focused area of the studio (bike shop, blacksmithing, welding, glass blowing, or studio operations) in exchange for course credit.
Whether it’s a project kickoff, an executive retreat, or a celebration, The Crucible offers a unique way to ignite your company’s creative fires. Working with The Crucible’s staff, your team is guided through hands-on art workshops encouraging them to learn and collaborate in new ways. Our workshops can meet the needs of any group, from as few as six to more than 100.

**Workshop Areas Available:**
- Blacksmithing
- Foundry
- MIG Welding & Plasma Cutting
- TIG Welding
- Oxy-acyetylene Cutting
- Metalsmithing
- Glass Flameworking
- Glass Sand Casting
- Glass Fusing
- Sandblasted Glass
- Woodworking
- Leatherworking
- Clay Sculpture, and more

**Options**
The Crucible has a workshop to fit your organization’s budget and schedule.

- **2- OR 3-HOUR WORKSHOP:** Your team gets a taste of one technique, such as welding, blacksmithing, or glass flameworking.
- **3- OR 4-HOUR HALF-DAY WORKSHOP:** Your team completes small, individual art projects or collaborates on a group piece.
- **6-HOUR FULL-DAY WORKSHOP:** Your group can work in multiple areas, such as torch cutting and welding, to create individual or group projects.
- **6- OR 8-HOUR CUSTOMIZED PROJECT WORKSHOP:** Your group collaborates and designs a single large art project, using multiple techniques.

Workshops start as low as $50. Customized Project packages start at $2,500.

**More Info**
Visit: [TheCrucible.org](http://TheCrucible.org)
Call: 510.444.0919 x125
Email: teambuilding@thecrucible.org

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**Studio Rentals**
The Crucible offers 24-hour access to private or shared spaces with industrial pallet racks, 120-volts in a secure building, and access to The Crucible’s studios and tools during studio hours, with appropriate studio area checkouts. Studio renters automatically become Crucible members at the Pyro level, and all their area safety check-outs are free.

- $400 per month for 8’ x 16’ shared studio
- $690 per month for 16’ x 16’ full studio

**CREATE Program**
The Crucible’s Expanded Access to Tools and Equipment (CREATE) program allows Crucible members to use our studios during regular studio hours, after passing appropriate studio area safety checkouts ($40 per area). Classes take priority. Spaces must be cleaned and vacated 30 minutes prior to any class and 15 minutes before closing time.

**Studio hours:**
- Monday–Friday, 10 am–10 pm
- Saturday & Sunday, 10 am–6 pm

**CREATE hours:**
- $1,100 — full year access and four free checkouts
- $350 — 90-day and one free checkout
- $125 — 30-day session during any class quarter
- $105 — recurring monthly billing (minimum 3 months)
- $40 — per area safety checkout
- $30 — optional 2.5’ x 2 x 6 1/2’ locker
- $125 — optional 3’ x 5’ x 8’ stall including shelving and rolling cart

**Tool & Equipment Areas Available**
- Arc Welding
- Blacksmithing
- Beadblasting
- Blacksmithing Power Hammers
- Glass Coldworking
- Grinding Room
- Jewelry
- Enameling
- Metal Fabrication Tools
- MIG Welding
- Oxy-acyetylene
- Plasma Cutter
- Shell Room
- TIG Welding
- Wax Room
- Woodshop
- Woodturning

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**Summer 2017 Closures**
July 4: Independence Day
TOES IN THE WATER

Friday Flame Classes

ENTRY-LEVEL
End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece!

1 SESSION 3 hours from $33 per hour

Price $110.00  Member Price $101.50

Glass Fusing
Apr 14 Friday 6:30–10 pm 3GLA04B17-A
Apr 28 Friday 6:30–10 pm 3GLA04B17-B
May 12 Friday 6:30–10 pm 3GLA04B17-C
May 26 Friday 6:30–10 pm 4GLA04B17-B
Jun 9 Friday 6:30–10 pm 4GLA04B17-D
Jun 23 Friday 6:30–10 pm 4GLA04B17-E
Jul 14 Friday 6:30–10 pm 5GLA04B17-A
Jul 28 Friday 6:30–10 pm 5GLA04B17-B
Aug 11 Friday 6:30–10 pm 5GLA04B17-C

Jewelry
Apr 14 Friday 6:30–10 pm 3JWL04B17-A
Apr 28 Friday 6:30–10 pm 3JWL04B17-B
May 12 Friday 6:30–10 pm 3JWL04B17-C
May 26 Friday 6:30–10 pm 4JWL04B17-D
Jun 9 Friday 6:30–10 pm 4JWL04B17-E
Jun 23 Friday 6:30–10 pm 4JWL04B17-F
Jul 14 Friday 6:30–10 pm 5JWL04B17-A
Jul 28 Friday 6:30–10 pm 5JWL04B17-B
Aug 11 Friday 6:30–10 pm 5JWL04B17-C

Leather
Apr 14 Friday 6:30–10 pm 3TEX04B17-A
Apr 28 Friday 6:30–10 pm 3TEX04B17-B
May 12 Friday 6:30–10 pm 3TEX04B17-C
May 26 Friday 6:30–10 pm 4TEX04B17-D
Jun 9 Friday 6:30–10 pm 4TEX04B17-E
Jun 23 Friday 6:30–10 pm 4TEX04B17-F
Jul 14 Friday 6:30–10 pm 5TEX04B17-A
Jul 28 Friday 6:30–10 pm 5TEX04B17-B
Aug 11 Friday 6:30–10 pm 5TEX04B17-C

MIG Welding
Apr 14 Friday 6:30–10 pm 3MIG04B17-A
Apr 28 Friday 6:30–10 pm 3MIG04B17-B
May 12 Friday 6:30–10 pm 3MIG04B17-C
May 26 Friday 6:30–10 pm 4MIG04B17-D
Jun 9 Friday 6:30–10 pm 4MIG04B17-E
Jun 23 Friday 6:30–10 pm 4MIG04B17-F
Jul 14 Friday 6:30–10 pm 5MIG04B17-A
Jul 28 Friday 6:30–10 pm 5MIG04B17-B
Aug 11 Friday 6:30–10 pm 5MIG04B17-C

3-Hour Tasters
ENTRY-LEVEL
3-Hour Tasters are a great way to explore a new art form without the deeper commitment of a full course. You can try Blacksmithing, Ceramics, Enameling, Foundry, Glass Casting, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. Take a Taster and meet new friends, or give the gift of creativity to someone special. These popular and fun classes fill up fast!

1 SESSION 3 hours from $33 per hour

Glass Fusing
May 14 Sunday 10 am–1 pm 3GLA02E17-A
May 14 Sunday 2–5 pm 3GLA02F17-B

Sand Casting
May 14 Sunday 2–5 pm 3FOU02E17-A
May 14 Sunday 2–5 pm 3FOU02F17-B

Glass Fusing
May 14 Sunday 10 am–1 pm 3GLA02E17-A
May 14 Sunday 2–5 pm 3GLA02F17-B

Leather
May 14 Sunday 10 am–1 pm 3TEX02E17-A
May 14 Sunday 2–5 pm 3TEX02F17-B

Glass Flameworking
Apr 14 Friday 6:30–10 pm 3GLF04B17-A
Apr 28 Friday 6:30–10 pm 3GLF04B17-B
May 12 Friday 6:30–10 pm 3GLF04B17-C
May 26 Friday 6:30–10 pm 4GLF04B17-D
Jun 9 Friday 6:30–10 pm 4GLF04B17-E
Jun 23 Friday 6:30–10 pm 4GLF04B17-F
Jul 14 Friday 6:30–10 pm 5GLF04B17-A
Jul 28 Friday 6:30–10 pm 5GLF04B17-B
Aug 11 Friday 6:30–10 pm 5GLF04B17-C
DEEP DIVES

Weeklong Workshops

ENTRY-LEVEL

Remember when your childhood reading allowed you to choose your own adventure? We’ve created a series of weeklong camps with morning and afternoon session options. Over the course of five days, you’ll learn theory, principles, and techniques that will give you the necessary skills to create your own independent project.

See individual class descriptions in department listings.

Blacksmithing I

WEEKLONG  15 hours from $26 per hour
Apr 17–21 Mon–Fri 10 am–1 pm  3BLK10K17-A
Aug 21–25 Mon–Fri 2–5 pm  5BLK10M17-B

Price $365.00  Member Price $337.50

Aug 21–25 Mon–Fri 10 am–1 pm  5GLB10K17-A
Aug 21–25 Mon–Fri 2–5 pm  5GLB10M17-B

Price $655.00  Member Price $604.50

Glass Flameworking I

WEEKLONG  15 hours from $23 per hour
Apr 17–21 Mon–Fri 10 am–1 pm  3GLF10K17-A
Aug 21–25 Mon–Fri 10 am–1 pm  5GLF10K17-A
Aug 21–25 Mon–Fri 2–5 pm  5GLF10M17-B

Price $365.00  Member Price $337.50

Jewelry & Metals I

WEEKLONG  15 hours from $23 per hour
Apr 17–21 Mon–Fri 10 am–1 pm  3JWL10K17-A
Aug 21–25 Mon–Fri 10 am–1 pm  5JWL10K17-A
Aug 28–Sept 1 Mon–Fri 10 am–1 pm  5JWL10K17-B

Price $380.00  Member Price $351.00

MIG Welding I

WEEKLONG  15 hours from $26 per hour
Apr 17–21 Mon–Fri 10 am–1 pm  3MIG10K17-A
Aug 21–25 Mon–Fri 2–5 pm  5MIG10M17-B

Price $425.00  Member Price $390.50

Woodworking I

WEEKLONG  30 hours from $23 per hour
Apr 17–21 Mon–Fri 10 am–4 pm  3WOD10P17-A
Aug 21–25 Mon–Fri 10 am–4 pm  5WOD10P17-B

Price $760.00  Member Price $692.50

Aug 28–Sep 1

Monday–Thursday  10 am–10 pm
& Friday  10 am–5 pm

Glass Blowing

5GLB85J17-A

Price $1,575.00  Member Price $1,413.75

Flameworking

5GLF85J17-A

Price $1,275.00  Member Price $1,182.50

Welding

5MIG85J17-A

Price $1,275.00  Member Price $1,182.50

Immersion Workshops

ENTRY-LEVEL

Immersions are designed to give beginning to advanced students an opportunity to do a deep-dive study in a particular curriculum area. You will learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day will consist of six hours of instruction with four hours of optional open lab time in the evening, except Friday, which will be a full lab day. Lunch and dinner will be provided. The week will conclude with a dinner and artist reception on Friday evening, where artists will have their work on display to talk about proudly. Friends and family will be welcome and can join the dinner for a fee.

See individual class descriptions in department listings.
**ADULT CLASSES**

**Artist Resources**

**Copyright Law for Artists**

*ENTRY LEVEL*

Taught by a Crucible artist and licensed California attorney, this seminar shows you how best to protect your works from plagiarism, including registering your works, determining whether your work has been illegally copied, and what to do if your copyright has been violated.

**1 SESSION** 3 hours from $28 per hour

Jun 14 Wednesday 7–10 pm
7WHL00A17-A

Price $60.00 Member Price $54.50

**Blacksmithing**

**Friday Flame: Blacksmithing**

*ENTRY LEVEL*

End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece! See page 6 for more Friday Flame options.

**1 SESSION** 3 hours from $27 per hour

Apr 14 Friday 6:30–10 pm 5BLK04B17-A
Apr 28 Friday 6:30–10 pm 5BLK04B17-B
May 12 Friday 6:30–10 pm 5BLK04B17-C
May 26 Friday 6:30–10 pm 4BLK04B17-D
Jun 9 Friday 6:30–10 pm 4BLK04B17-E
Jun 23 Friday 6:30–10 pm 4BLK04B17-F
Jul 14 Friday 6:30–10 pm 5BLK04B17-A
Jul 28 Friday 6:30–10 pm 5BLK04B17-B
Aug 11 Friday 6:30–10 pm 5BLK04B17-C

Price $110.00 Member Price $104.50

**Blacksmithing I**

*ENTRY LEVEL*

Learn the basics of blacksmithing! This class teaches the fundamental skills needed to forge steel and understand blacksmithing tools. We will introduce tapering, upsetting, flattening, dishing, and bending of hot steel. Students make small projects, such as spoons, knives, forks, and hooks.

**WEEKEND** 15 hours from $26 per hour

Apr 15 & 16 Sat–Sun 10 am–6 pm 3BLK10A17-A
Apr 29 & 30 Sat–Sun 10 am–6 pm 3BLK10A17-B
May 13 & 14 Sat–Sun 10 am–6 pm 3BLK10A17-C
May 27 & 28 Sat–Sun 10 am–6 pm 4BLK10A17-D
Jun 10 & 11 Sat–Sun 10 am–6 pm 4BLK10A17-E
Jun 24 & 25 Sat–Sun 10 am–6 pm 4BLK10A17-F
Jul 15 & 16 Sat–Sun 10 am–6 pm 5BLK10A17-A
Jul 29 & 30 Sat–Sun 10 am–6 pm 5BLK10A17-B

Price $280.00 Member Price $260.00

**Blacksmithing II**

*CONTINUING*

Deepen your knowledge in this sequel to Blacksmithing I. This class is designed to develop your basic skills along with techniques including scroll-making, collaring, basic tool-making, and heat-treating. You will gain the skills needed to move on to more advanced classes like Bladesmithing and Techniques in Ornamental Ironwork. PREREQUISITE: Blacksmithing I

**WEEKEND** 15 hours from $25 per hour

Aug 12 & 13 Sat & Sun 10 am–6 pm 5BLK31A17-B
Aug 19–20 Sat & Sun 10 am–6 pm 5BLK31B17-A

Price $425.00 Member Price $399.00

**Power Hammer I**

*MASTER*

We will focus on power hammer techniques as we forge a set of basic hammer tools, side sets, a round-back flatter, and a pair of tongs. By the time these new tools are heat-treated, students will go a long way towards mastering the skill set. Emphasis will be on the safe and effective operation and maintenance of the hammer. PREREQUISITE: Blacksmithing II

**WEEKEND** 16 hours from $34 per hour

Jul 17 & 18 Sat & Sun 10 am–6 pm 4BLK04A17-A

Price $600.00 Member Price $550.00

**Sheet Metal Forming with Evan Wilcox**

*ENTRY LEVEL*

Gain invaluable skills for fabricating parts for motorcycles, cars, airplanes, and sculptures. Learn how to form sheet metal into tanks, fenders, and fairings, using gas-aluminum welding, aplanishing hammer, an English wheel, and hand forming tools. Class time is split between instruction and lab time where students can use Crucible equipment. You will have a chance to make your own project.

**WEEKEND** 12 hours from $44 per hour

May 6–7 Sat–Sun 11 am–5 pm 3WHL48A17-A

Price $580.00 Member Price $530.00

**Bike Shop**

**Bicycle Mechanic Workshop**

*ENTRY LEVEL*

Perform a complete tune up on your own bicycle! As you disassemble and reassemble the entire bike, you will learn the names of the components and the tools used in a professional shop. Basic supplies are provided, but students will need to bring any specialty tools, cables, chains, and gears required. Some items may be available for sale at The Crucible.

**1 SESSION** 8 hours from $30 per hour

Apr 15 Saturday 10 am–6 pm 3WHL10A17-A
Jun 10 Saturday 10 am–6 pm 3WHL10A17-B
Aug 5 Saturday 10 am–6 pm 3WHL10A17-C

Price $265.00 Member Price $243.50

**Bladesmithing**

*CONTINUING*

This specialized course focuses on the forging techniques needed to produce sharp-edged tools of high-carbon steel. We will cover blade design, control of steel grain structure, hardening and tempering methods; steel finishes, and handle construction. Emphasis is on learning the fundamental skills needed to forge a good knife. PREREQUISITE: Blacksmithing II

**WEEKEND** 30 hours from $38 per hour

Aug 14–18 Mon–Fri 11 am–5 pm 5BLK28P17-A

Price $615.00 Member Price $561.50
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**Ceramics**

**Ceramics I**

**ENTRY LEVEL**

Try your hands at making sculptural and functional forms in clay. This introductory class covers traditional hand-building and surface treatment techniques while pushing the boundaries with unconventional methods. You will leave with a solid foundation in working with clay and the ability to apply your new skill set to other 3-D work and materials.

**5 SESSIONS**

15 hours from $23 per hour
Apr 12–May 10  Wednesdays 6:30–9:30 pm  3CER1B17-A
Price $380.00  Member Price $352.00

**Ceramics Lab**

**CONTINUING**

Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You can sign up for an eight-week series of Ceramics Lab or drop in when you have time ($15 per session). You are free to come and go at your convenience during open lab hours, however you must provide your own materials. Clay can be purchased for $12 per bag.

**PREREQUISITE:** Ceramics I

**5 SESSIONS**

15 hours at $5 per hour
Apr 10–May 8  Mondays 7–9 pm  3CER7B17-A
Price $83.00  Member Price $75.00

**Making Multiples: An Introduction to Slipcasting Ceramics**

**ENTRY LEVEL**

Create ceramic multiples! Whether you are interested in making multiple vessels or sculptures, this class covers the basic moldmaking techniques. We will make molds from existing objects and cast clay multiples using clay slip. The clay castings will then be finished, kiln-fired, and glazed. Your personal objects are welcome, but there are size limits.

**5 SESSIONS**

15 hours from $23 per hour
May 24–Jun 21  Wednesdays 6:30–9:30 pm  3CER1B17-A
Price $390.00  Member Price $367.00

**Articulating the Human Figure in Clay**

**ENTRY LEVEL**

Learn to sculpt the human figure! We will focus on anatomy and proportion, while encouraging you to push the limits of your imagination with abstraction and exaggeration. Students gain a solid understanding of the human form and the skills to construct the ceramic version of your vision. Prior experience working with clay preferred but not necessary. Live model present.

**5 SESSIONS**

15 hours from $27 per hour
Apr 12–May 10  Wednesdays 6:30–9:30 pm  3CER3B17-A
Price $380.00  Member Price $352.00

**Enameling I**

**ENTRY LEVEL**

Discover the ancient art of fusing glass to metal. You will learn techniques in metal preparation and fabrication for enameling, kiln properties and firing methods, properties of enamel, and dry and wet applications.

**PREREQUISITE:** Enameling I

**WEEKEND**

15 hours from $27 per hour
Apr 29 & 30  Sat 10 am–5 pm  4ENL0A17-A
Price $395.00  Member Price $357.00
May 6 & 7  Sun 10 am–5 pm  4ENL0A17-B
Price $395.00  Member Price $357.00
Jul 5 & 6  Sat 10 am–5 pm  5ENL10A17-A
Price $395.00  Member Price $357.00

**5 SESSIONS**

15 hours from $27 per hour
Apr 11–May 9  Tuesdays 7–10 pm  3ENL0B17-A
May 22–Jun 19  Mondays 7–10 pm  4ENL0B17-B
July 13–Aug 10  Thursdays 7–10 pm  5ENL10B17-A
Price $295.00  Member Price $269.00

**Enameling II**

**CONTINUING**

Further develop the skills learned in Enameling I, including torch firing, basic enamel painting, and working with precious metals and 3-D forms. In addition to a lot of experimenting, students will produce at least three finished pieces.

**PREREQUISITE:** Enameling I

**WEEKEND**

15 hours from $18 per hour
Aug 12 & 13  Sat 10 am–5 pm  5ENL31A17-A
Price $300.00  Member Price $274.50

**A Primer in 3D Enameling**

**ENTRY LEVEL**

Explore the art of 3-D metal forms in this introductory one-day workshop. We will work with soft copper sheet, mesh, and copper wire. Students learn to plan for adding enamel to forms and how to fire forms. Spray equipment, industrial enameling materials, and traditional jewelry enamels are used.

**1 SESSION**

6 hours from $23 per hour
Jun 24  Saturday 10 am–4 pm  4ENL06E17-A
Price $155.00  Member Price $141.50

**Exploring Liquid Enamels**

**ENTRY LEVEL**

Originally formulated to glaze steel in the 1800s, liquid enamels are referred to as industrial or porcelain enamels because of their similarity to ceramic glazes. They can be painted, splashed, airbrushed, and combined with other media to add spontaneity to enameling. Students will use these enamels, in conjunction with more traditional enamels, to create several test tiles and a small wall piece on copper. This is an entry-level class, although those with basic enameling skills are welcome.

**1 SESSION**

7 hours from $18 per hour
Apr 16  Sunday 10 am–5 pm  3ENL38A17-A
Price $145.00  Member Price $132.50

**Enameling Lab**

**CONTINUING**

Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials.

**PREREQUISITE:** Enameling I

**5 SESSIONS**

15 hours at $5 per hour
Apr 12–May 10  Wednesdays 7–10 pm  3ENL77B17-A
May 24–Jun 21  Wednesdays 7–10 pm  4ENL77B17-B
Jul 12–Aug 9  Wednesdays 7–10 pm  5ENL77B17-A
Member Price $142.00

**Enamel Painting & Drawing**

**CONTINUING**

Create a work of art! This class focuses on drawing and painting using vitreous enamels on copper and pre-enamedled steel. We will work with liquid, watercolor, and oil-based enamels as well as drawing materials like graphite, ceramic oxide pencils, and chalks. Previous drawing and painting experience is a plus, but not required. The instructor will discuss color theory, composition, and different painting techniques.

**PREREQUISITE:** Enameling I

**WEEKEND**

15 hours from $33 per hour
Jul 29 & 30  Sat & Sun 10 am–6 pm  5ENL38A17-A
Price $345.00  Member Price $318.00

See page 6 for more Friday Flame options.
Fire & Performance

**Art of Fire Dancing I (Poi)**

**ENTRY LEVEL**
Learn the ancient art of Maori fire dancing. Used by these warriors to increase strength and skill, poi (which means ball) is a form of juggling that uses balls on ropes swung in circular patterns. While learning to spin poi without fire, you will also gain knowledge about the history of the art form and its origins. On the last day of class, students will spin with fire!

**10 SESSIONS**
12 hours from $18 per hour
Apr 10–May 10
Mon & Wed 6–7 pm
3PER18B17-A

May 22–Jun 21
Mon & Wed 8–9:15 pm
3PER18B17-B

Price $248.00  Member Price $220.20

**Art of Fire Dancing II (Poi)**

**CONTINUING**
Learn how to integrate movement with your poi spinning. After this class, your body and your poi will work together as one and you will know many new tricks. This course highlights choreography, movement, and work with music. NOTE: You must have your own poi. **PREREQUISITE:** Art of Fire Dancing I (Poi)

**3 SESSIONS**
4 hours from $31 per hour
Jul 11–Aug 9
Wed 8–9:15 pm
3PER21B17-A

Price $120.00  Member Price $112.00

**Fire Hula Hoop I**

**ENTRY LEVEL**
Hoopnotize your friends with your amazing skills! This energetic course is an introduction to the basics of hooping including using different planes of the body, hoop tricks, and hoop expression through flow and imagination. At the culmination, you will hoop with fire!

**10 SESSIONS**
18 hours from $17 per hour
Apr 13–Jun 15
Thursdays 6–7:30 pm
3PER20B17-A

Jul 11–Aug 10
Thurs & Tues 8–9:30 pm
3PER20B17-A

Price $285.00  Member Price $259.50

**Fire Hula Hoop II**

**CONTINUING**
This class takes you beyond the hoop dance fundamentals and helps you add more complex hoop moves to your basic foundation. You will learn isolations, stalls, tosses, and how to move the hoop in different planes on your body and at varying levels. This class will teach you how to have more fluidity in your hoop dance, help you explore new moves, and see how to combine them with smooth transitions. You will learn how to achieve more freedom of motion in your moves, enabling you to explore expressive dance elements with complex tricks. We will hoop with fire twice during the ten-week series. Bring your own hoop or work with one provided. **PREREQUISITE:** Fire Hula Hoop I

**10 SESSIONS**
15 hours from $18 per hour
Jul 11–Aug 10
Thurs & Tues 8–9:30 pm
3PER20B17-A

Price $330.00  Member Price $300.00

**Fire Eating I**

**ENTRY LEVEL**
Spice up performances and parties with your new skills as a fire-eater! Students learn how to eat fire, run fire along skin, and more advanced tricks, with grace and confidence. You will make your own set of torches to take home.

**1 SESSION**
4 hours from $31 per hour
Apr 29
Sat 12–4 pm
3PER19F17-A

Jun 24
Sat 12–4 pm
4PER19F17-B

Aug 6
Sun 12–4 pm
4PER19F17-B

Price $135.00  Member Price $124.00

**Fire Staff I**

**ENTRY LEVEL**
Learn the fundamentals of spinning a single fire staff! We focus on how to align body movements with the staff in order to create a fluid, connected, captivating dance. Each student makes a practice staff to take home.

**5 SESSIONS**
7 hours from $19 per hour
Apr 29–May 10
Wed 6:30–8 pm
3PER18B17-A

Price $148.00  Member Price $135.00

**Foundry**

**3-Hour Taster: Sand Casting**

**ENTRY LEVEL**
3-Hour Tasters are a great way to explore a new art form without the deeper commitment of a full course. You can try Blacksmithing, Ceramics, Enameling, Foundry, Glass Casting, Glass Frameworiking, Glass Fusing, Jewelry, Leather, or MIG Welding. Take a Taster and meet new friends, or give the gift of creativity to someone special. These popular and fun classes fill up fast!
See page 7 for more 3-Hour Taster options.

**1 SESSION**
3 hours from $41 per hour
May 14
Sunday 2–5 pm
3FOU02E17-A

Price $135.00  Member Price $124.50

**Design & Make Your Own Waffle Iron**

ENTRY LEVEL
Each student will create a 7" diameter stovetop waffle iron with a waffle pattern of your own design. We will make sand molds and use a cupola furnace to melt the iron. At the spectacular iron pour event, students prepare iron and coke charges, operate the cupula, and pour molten iron into their new mold.

**10 SESSIONS**
30 hours from $17 per hour
Apr 17–Jun 19
Mondays 7–10 pm
3FOU02E17-A

Price $565.00  Member Price $514.50

**Iron Casting**

ENTRY LEVEL
In this course, you will complete a finished iron sculpture. You will explore mold construction and preparation while building your own sand mold with resin-bonded sand. Learn the steps required to prepare the cupula for an iron pour. At the spectacular iron pour event, students prepare iron and coke charges, operate the cupula, and pour molten iron into their new mold.

**10 SESSIONS**
30 hours from $13 per hour
Apr 17–Jun 19
Fridays 6–10 pm
3FOU12B17-A
No class Apr 21 or May 19

Price $540.00  Member Price $485.00

**Foundry I: Ceramic Shell Process**

**ENTRY LEVEL**
Ceramic shell is a mold material used in the lost wax casting method. Learn basic wax-working techniques and explore basic metal finishing in this fascinating course. You will create a wax sculpture and build ceramic shell molds, transforming your original wax piece into bronze or aluminum. **NOTE:** Additional fees required for wax, shell, and bronze.

**10 SESSIONS**
30 hours from $17 per hour
Apr 17–Jun 19
Mondays 7–10 pm
3FOU13B17-A

Price $550.00  Member Price $505.00

**Iron Casting**

ENTRY LEVEL
In this course, you will complete a finished iron sculpture. You will explore mold construction and preparation while building your own sand mold with resin-bonded sand. Learn the steps required to prepare the cupula for an iron pour. At the spectacular iron pour event, students prepare iron and coke charges, operate the cupula, and pour molten iron into their new mold.

**10 SESSIONS**
30 hours from $13 per hour
Apr 17–Jun 19
Fridays 6–10 pm
3FOU12B17-A
No class Apr 21 or May 19

Price $540.00  Member Price $485.00
**Glass Blowing I**

**ENTRY LEVEL**

Learn the basic skills and techniques to create a personalized hand-blown glasswork. With supportive instruction in a team environment, you will learn to safely work with molten glass, gather glass from the furnace, apply colors, and shape and sculpt molten glass. Be prepared to work in the heat!

**WEEKEND**

15 hours from $20 per hour

| Apr 15 & 16 | Sat & Sun | 10 am–6 pm | 3GLB04A17-A |
| Apr 29 & 30 | Sat & Sun | 10 am–6 pm | 3GLB04A17-B |
| May 13 & 14 | Sat & Sun | 10 am–6 pm | 3GLB04A17-C |
| May 27 & 28 | Sat & Sun | 10 am–6 pm | 4GLB04A17-D |
| Jun 10 & 11 | Sat & Sun | 10 am–6 pm | 4GLB04A17-E |
| Jun 24 & 25 | Sat & Sun | 10 am–6 pm | 4GLB04A17-F |

**4 SESSIONS**

15 hours from $20 per hour

| Apr 21–May 12 | Fridays | 6–10 pm | 3GLB04B17-G |

**WEEKLONG**

15 hours from $20 per hour

| Apr 17–21 | Mon–Fri | 10 am–1 pm | 3GLB04K17-A |
| Apr 17–21 | Mon–Fri | 2–5 pm | 3GLB04M17-B |
| Aug 21–25 | Mon–Fri | 10 am–1 pm | 3GLB04K17-A |
| Aug 21–25 | Mon–Fri | 2–5 pm | 4GLB04M17-B |

**Price $655.00**  **Member Price $604.50**

**Glass Blowing II: Cup Class**

**CONTINUING**

Build upon the skills acquired in Glass Blowing I by learning to make a drinking glass! We will explore the design and creation of various forms of practical (and not-so-practical) drinking ware, including applying color and creating hot bits for feet, handles, and wraps. Students are encouraged to bring a sketchbook.

**PREREQUISITE:** Glass Blowing I

**WEEKEND**

20 hours from $30 per hour

| May 6 & 7 | Sat & Sun | 10 am–6 pm | 3GLB35A17-A |

**Price $655.00**  **Member Price $604.50**

**Glass Paper Weights**

**ENTRY LEVEL**

Demystify the secrets behind glass paperweights with an excellent entry-level class for anyone wanting to dabble in hot glass. In this class, you will learn to gather molten glass out of the furnace, apply color, and manipulate and shape the glass. Proper use of traditional glass blowing tools and key terminology are also explained. Expect to create a one-of-a-kind paperweight that will mesmerize your friends!

**1 SESSION**

4 hours from $35 per hour

| Apr 24 | Mon | 6–10 pm | 3GLB05B17-A |
| Jul 31 | Mon | 6–10 pm | 4GLB05B17-A |

**Price $325.00**  **Member Price $300.00**

**Glass Blowing Lab**

**CONTINUING**

Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials.

**PREREQUISITE:** Glass Blowing I

**5 SESSIONS**

25 hours at $14 per hour

| Apr 11–May 3 | Tuesdays | 5–10 pm | 3GLB79B17-A |
| May 23–Jun 20 | Tuesdays | 5–10 pm | 4GLB79B17-B |

**Price $375.00**  **Member Price $342.50**

**Glass Blowing Immersion Program**

**ENTRY LEVEL**

Immersions are designed to give beginning to advanced students an opportunity to do a deep-dive study in a particular curriculum area. You will learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day will consist of six hours of instruction with four hours of optional open lab time in the evening, except Friday, which will be a full lab day. Lunch and dinner will be provided. The week will conclude with a dinner and artist reception on Friday evening, where artists will have their work on display to talk about proudly. Friends and family will be welcome and can join the dinner for a fee.

With heat from the belly of a 2000-degree furnace, you will transform the shape of molten glass using traditional tools, such as marvers, jacks, paddles, straight and diamond shears, optic molds, wood blocks, as well the paper, the punty, and the blowpipe. You will manipulate and shape hot glass into paperweights, flowers, drinking vessels, bowls, bottles, sculptures, small vases and more. In a supportive and encouraging environment, you will be taught glass blowing theory and principles including rotation, gravity, form, control, thermal stress, bit work, annealing, color theory and application. To expand and refine your skills, fundamental techniques, such as gathering, marvering, transferring, necking, trimming, sculpting, attachments, and wraps will be taught, as well as bench and blowing technique.

Safety and teamwork are a key focus of working in the hot shop. During this exciting workshop, professional glass artists will guide you through the techniques of working with hot glass. You will have the opportunity to construct projects of your very own design over the open lab. We will have a library of glassworking books and sample projects for inspiration.

**WEEKEND IMMERSION**

51 hours from $29 per hour

| Aug 28–Sep 1 | Mon–Thur | 10 am–10 pm | 5GLB85J17-A |
| Friday | 10 am–5 pm | 5GLB85J17-A |

**Price $1,775.00**  **Member Price $1,782.50**

**Glass Casting & Coldworking**

**Glass Coldworking & Engraving**

**ENTRY LEVEL**

Learn to grind and polish glass in our expanded coldworking space! Using glass blanks, students experiment with techniques in cutting, drilling, carving, and sandblasting. We will introduce lathe work concepts and provide the chance to complete at least two ground and polished objects. This is an entry-level course, but returning students learn more advanced techniques.

**5 SESSIONS**

25 hours from $23 per hour

| Apr 13–May 11 | Thursdays | 7–10 pm | 3GLC12B17-A |

**Price $385.00**  **Member Price $357.50**

**Kiln Casting Glass Sculpture**

**ENTRY LEVEL**

Create glass sculpture using the ancient technique of lost wax. Students will create silicon molds from found objects augmented with wax sculpting techniques to create wax positives. The positives will be invested in a refractory material and de-waxed, creating a void in the refractory, which will be filled with glass in the kiln. Students will learn contemporary moldmaking skills, wax manipulation, refractory and glass sciences, and kiln programming, including glass casting and annealing firing schedules.

**10 SESSIONS**

30 hours from $37 per hour

| Apr 12–Jun 14 | Wednesdays | 7–10 pm | 3GLC10B17-A |

**Price $585.00**  **Member Price $552.00**

**One-Day Coldworking Workshop**

**ENTRY LEVEL**

This introduction to our glass cold shop is designed to prepare you for the cold shop CREATE program assessment. We will demonstrate safety, proper tooling techniques, and machine maintenance. Using glass blanks, we will also delve into the tools and techniques of sawing, drilling, carving, sandblasting, grinding, polishing, and gluing glass.

**1 SESSION**

6 hours from $24 per hour

| May 14 | Sunday | 10 am–4 pm | 3GLC12H17-A |
| Jun 3 | Saturday | 10 am–4 pm | 4GLC12H17-B |
| Jun 18 | Sunday | 10 am–4 pm | 4GLC12H17-C |

**Price $355.00**  **Member Price $344.00**
### Glass Flameworking

#### Glass Beads I
**ENTRY LEVEL**
Learn to make colorful glass beads from Effetre glass rods (a soft glass) using an oxy-propane torch. This class teaches you how to make a variety of bead shapes, introduces tools to form and alter surface patterns, and shows you how to make stringers and twisters.

**WEEKEND**
15 hours from $18 per hour
May 13 & 14 Sat & Sun 10 am–6 pm 3GLF12A17-A
Jul 22 & 23 Sat & Sun 10 am–6 pm 5GLF12A17-A

**Price $305.00**  **Member Price $279.50**

#### Glass Beads II
**CONTINUING**
Build on what you learned in Glass Beads I and improve your flameworking skills. We will explore the many uses of individual techniques, such as drawing, and colored glass, as well as a variety of techniques to make hollow beads. In addition, we will cover various techniques for creating unique surface patterns, such as cold working and painting.

**WEEKEND**
15 hours from $18 per hour
Jun 17 & 18 Sat & Sun 10 am–6 pm 4GLF12A17-A

**Price $305.00**  **Member Price $279.50**

#### Adventures In Soft Glass: Finding Your Inner Monster
**CONTINUING**
Extend your glass experience by learning techniques in creating open hollow forms. Monster expert Ralph McCaskey takes you on a journey in soft glass shaping secrets to creating facial expressions (if, indeed a bead could have a face) with a concentration on the eyes, thought of as windows to the soul. A brief historical look at monsters will give you a good starting point for your project. The class will wind up with embellishment techniques, such as feathers and electroforming.

**WEEKEND IMMERSION**
51 hours from $23 per hour
Aug 28–Sept 1 Mon–Thur 10 am–10 pm 5GLF85J17-A

**Price $1275.00**  **Member Price $1182.50**

#### Glass Flameworking Lab
**CONTINUING**
Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials. **PREREQUISITE:** Glass Beads I or Glass Flameworking I

**5 SESSIONS**
20 hours at $9 per hour
Apr 13–May 11 Thursdays 6–10 pm 4GLF77B17-A
May 25–Jun 22 Thursdays 6–10 pm 4GLF77B17-B
Jul 23–Aug 10 Thursdays 6–10 pm 5GLF77B17-A

**Member Price $189.50**

### Glass Fusing & Slumping

#### Flameworking Immersion Program
**ENTRY LEVEL**
Immersions are designed to give beginning to advanced students an opportunity to do a deep-dive study in a particular curriculum area. You will learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day will consist of six hours of instruction with four hours of optional open lab time in the evening, except Friday, which will be a full lab day. Lunch and dinner will be provided. The week will conclude with a dinner and artist reception on Friday evening, where artists will have their work on display to talk about proudly. Friends and family will be welcome and can join the dinner for a fee.

**WEEKEND**
15 hours from $11 per hour
Jun 20–23 Sat & Sun 10 am–6 pm 3GLF10A17-A
Aug 11–14 Fri & Sat 9 am–5 pm 5GLF31A17-A

**Price $205.00**  **Member Price $189.50**

#### Glass Flameworking
**ENTRY LEVEL**
With fun and adventure, learning techniques in creating open hollow forms. Students construct projects of their own design during the open lab. We will have a library of glassworking books and sample projects for inspiration.

**WEEKEND**
8 hours from $23 per hour
May 6 Saturday 10 am–6 pm 5GLF85J17-A
Jul 9 Saturday 10 am–6 pm 5GLF77F17-A

**Price $205.00**  **Member Price $189.50**

#### Adventures in Soft Glass: Fabulous Fish
**CONTINUING**
This intermediate-level class will have you sculpting fabulous solid and hollow-bodied fish. Emphasis will be on both structural and delightful decorative glass flameworking techniques, along with an exploration of various aquatic life forms. Prerequisite: **PREREQUISITE:** Glass Beads I or Glass Flameworking I

**5 SESSIONS**
20 hours at $9 per hour
Apr 13–May 11 Thursdays 6–10 pm 4GLF77B17-A
May 25–Jun 22 Thursdays 6–10 pm 4GLF77B17-B
Jul 23–Aug 10 Thursdays 6–10 pm 5GLF77B17-A

**Member Price $189.50**

#### Glass Beads II
**ENTRY LEVEL**
Create beautiful glass ornaments, pendants, marbles, and more! Learn how to use tools and equipment like an oxy-propane torch to melt and shape glass. We will cover a variety of techniques including color pulling and applying, color pattern application, and marble making.

**WEEKEND**
15 hours from $22 per hour
Apr 14–16 Sat & Sun 10 am–6 pm 3GLF10A17-A
Apr 15–16 Sat & Sun 10 am–6 pm 4GLF10A17-B
May 27 & 28 Sat & Sun 10 am–6 pm 4GLF10A17-C
Jun 10 & 11 Sat & Sun 10 am–6 pm 4GLF10A17-D
Jul 15 & 16 Sat & Sun 10 am–6 pm 4GLF10A17-C
Jul 22 & 23 Sat & Sun 10 am–6 pm 4GLF10A17-D

**5 SESSIONS**
15 hours from $22 per hour
Apr 11–May 9 Tuesdays 7–10 pm 3GLF10B17-E
May 23–Jun 20 Tuesdays 7–10 pm 4GLF10B17-F
Jul 11–Aug 8 Thursdays 7–10 pm 4GLF10B17-F

**WEEKLONG**
15 hours from $22 per hour
Apr 17–21 Mon–Fri 10 am–1 pm 3GLF10K17-A
Apr 21–25 Mon–Fri 10 am–1 pm 4GLF10K17-A
Apr 21–25 Mon–Fri 2–5 pm 4GLF10M17-B

**Price $365.00**  **Member Price $337.50**

### Glass Sculpture

#### Recycled Glass Sculpture
**ENTRY LEVEL**
Explore techniques for using window glass to make everything from dinner plates to sculptural pieces, using bottles to make planters and drinking glasses and using broken shower doors to make beautiful bowls. This class will introduce fusing window glass in the kiln, casting window glass using commercial grade plaster to make your own molds, cutting bottles with a tile saw, coldworking, and painting options for the finished pieces. Learn basic glass chemistry, coloration methods, and other surface treatments, and process steps for each application and make at least four projects, one of which will have an aluminum backed hanger that you make yourself for a hang-able finished piece.

**WEEKEND**
15 hours from $16 per hour
Jul 8 & 9 Sat & Sun 10 am–6 pm 5GLC16E17-A

**Price $269.00**  **Member Price $242.50**
**Fundamentals of Glass Fusing & Slumping I**

**ENTRY LEVEL**
Enter the world of art glass in this fundamentals class. The techniques of fusing and slumping offer new possibilities for creating with color and form. Learn the basics of glass/heat interaction, glass cutting, fusing, and slumping. Projects include a fused and slumped plate, a wall pocket vase, and a mosaic sun catcher.

**WEEKEND**
10 hours from $24 per hour
- Apr 15 & 16 Sat & Sun 10 am–3 pm 3GLA06A17-A
- May 6 & 7 Sat & Sun 10 am–3 pm 3GLA06A17-A

Price $260.00  Member Price $242.50

**Fundamentals of Glass Fusing & Slumping II**

**CONTINUING**
Take the basics learned in Fundamentals of Glass Fusing and Slumping I and expand on your ideas using more advanced techniques. Emphasis will be on design, behavior of glass under heat, use of ring saw to create more intricate shapes, and understanding of kiln firing processes. Projects will include a large 10”-12” plate, slumping into drop-out ring molds, and frit-casting into clay molds. PREREQUISITE: Fundamentals of Glass Fusing & Slumping I

**WEEKEND**
10 hours from $24 per hour
- May 22–28 Sat & Sun 10 am–6 pm 3GLA39A17-A

Price $260.00  Member Price $242.50

**Glass Fusing Lab**

**ENTRY LEVEL**
Explore the enchanting properties of fused glass to create exquisite jewelry. Techniques include flowing glass into unique color combinations, as well as the use of iridescent, dichroic, and other special glasses for pendants, charms, and earrings.

**5 SESSIONS**
15 hours from $21 per hour
- May 24–Jun 16 Tuesdays 6:30–9:30 pm 4GLA14B17-A

Price $350.00  Member Price $336.50

**Glass Fusing & Slumping II**

**ENTRY LEVEL**
Enter the world of art glass! We will focus on the techniques of fusing and slumping, which offer myriad possibilities for creating with color and form. You will learn the basics of glass and heat interaction, glass cutting, fusing, and slumping. The class will cover mold materials as well as firing and annealing procedures. You will explore several new processes and each week you will complete several small projects.

**5 SESSIONS**
15 hours from $23 per hour
- Apr 10–May 8 Tuesdays 6:30–9:30 pm 3GLA10B17-A

Price $365.00  Member Price $342.50

**Friday Flame: Jewelry**

**ENTRY LEVEL**
End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece! See page 6 for more Friday Flame options.

**1 SESSION**
3 hours from $33 per hour
- Apr 14 Friday 6:30–10 pm 4JWL04B17-A
- Apr 28 Friday 6:30–10 pm 4JWL04B17-B
- May 12 Friday 6:30–10 pm 4JWL04B17-C
- May 26 Friday 6:30–10 pm 4JWL04B17-D
- Jun 9 Friday 6:30–10 pm 4JWL04B17-E
- Jun 23 Friday 6:30–10 pm 4JWL04B17-F
- Jul 14 Friday 6:30–10 pm 4JWL04B17-A
- Jul 28 Friday 6:30–10 pm 4JWL04B17-B
- Aug 11 Friday 6:30–10 pm 4JWL04B17-C

Price $110.00  Member Price $101.50

**Jewelry & Metals I**

**ENTRY LEVEL**
Learn the basics of jewelry making. We will focus on sawing, filing, sanding, soldering, texturing, annealing, stamping, polishing, and design. Students will learn the properties of metals like copper, brass, and silver and make a sterling silver ring.

**WEEKEND**
15 hours from $25 per hour
- Apr 15 & 16 Sat & Sun 10 am–6 pm 3JWL10A17-A
- Apr 29 & 30 Sat & Sun 10 am–6 pm 3JWL10A17-B
- May 13 Sat & Sun 10 am–6 pm 3JWL10A17-C
- May 27 & 28 Sat & Sun 10 am–6 pm 3JWL10A17-D
- Jun 10 & 11 Sat & Sun 10 am–6 pm 4JWL10A17-E
- Jul 15 & 16 Sat & Sun 10 am–6 pm 4JWL10A17-A
- Jul 29 & 30 Sat & Sun 10 am–6 pm 4JWL10A17-B

**5 SESSIONS**
15 hours from $23 per hour
- Apr 10–May 8 Mondays 6:30–9:30 pm 4JWL04B17-A
- Apr 12–May 10 Wednesdays 7–10 pm 3JWL10B17-A
- Jul 10–Aug 7 Mondays 6–10 pm 3JWL10B17-E
- Jul 12–Aug 9 Wednesdays 7–10 pm 3JWL10B17-F

**WEEKLONG**
15 hours from $22 per hour
- Apr 13–May 11 Thursdays 7–10 pm 3JWL10B17-A

Price $320.00  Member Price $294.50

**Jewelry & Metals II**

**CONTINUING**
Further develop your basic metalsmithing skills. We will teach new techniques, safety, and design. In addition to technical reference samples, you will create an original piece of jewelry of your own design using a cabochon stone. PREREQUISITE: Jewelry & Metals I

**WEEKEND**
15 hours from $20 per hour
- Jun 24 & 25 Sat & Sun 10 am–6 pm 4JWL31A17-B
- Aug 12 & 13 Sat & Sun 10 am–6 pm 5JWL31A17-A

Price $340.00  Member Price $314.00

**Casting Wax to Silver**

**CONTINUING**
Learn the ancient process of lost wax casting sculptural jewelry. Experimenting with different types of wax, you will carve, cast, and finish at least one pendant or ring in silver. Students are encouraged to bring in personal sketches and ideas. PREREQUISITE: Jewelry & Metals I

**5 SESSIONS**
15 hours from $25 per hour
- May 22–Jun 19 Mondays 10–1 pm 4JWL10A17-A

Price $340.00  Member Price $314.00

**Chasing & Repousse**

**CONTINUING**
Make your drawings come to life in sheet metal with two techniques that allow you to add highly detailed relief images to your jewelry. Learn to isolate and control the movement of your metal and create an original piece using the design of your choice. Spice up your sculpture or jewelry with detailed accents, texture, and depth. PREREQUISITE: Jewelry & Metals I

**5 SESSIONS**
15 hours from $19 per hour
- Apr 13–May 11 Thursdays 7–10 pm 3JWL10A17-A

Price $320.00  Member Price $294.50
**Exploration in Chainmaking**  
**ENTRY LEVEL**  
This class covers the classical skills needed to make woven and Etruscan chains. You will learn to manipulate wire through the selected use of hand tools, making jump rings, splicing wires together, and fusing jump rings shut. Your finished one-of-a-kind silver chain can accommodate an original pendant or be worn alone.  
**WEEKEND**  
May 6 & 7  Sat & Sun  10 am–6 pm  3JWL15A17-4  
Price $320.00  Member Price $294.50

**Metal Clay I**  
**ENTRY LEVEL**  
Learn the basics, using metal clay tools including rollers, texture plates, rubber stamps, files, and brushes. Learn to form clay for both flat and sculptural designs. We will cover creating surface texture and enhancements, clay bail design, arrangement, placement, stone setting, finishing, polishing, and more. Students will complete three pendant projects.  
**SESSION**  
5 hours from $29 per hour  
Apr 23  Sunday  11 am–4 pm  3ACM10H17-A  
Price $105.00  Member Price $90.50

**Gemology**  
**ENTRY LEVEL**  
Learn the first steps to becoming a jeweler in this intensive class focused on gemology, gemstone properties, and testing methods. You will learn how to identify different types of gems. Class discussions include synthetics, imitations, treatments, and enhancements. Bring in your favorite jewelry pieces or gems to discuss.  
**SESSION**  
5 SESSIONS  
Apr 15  Saturday  10 am–4:30 pm  3JWL18E17-A  
Price $345.00  Member Price $317.50

**Kinetics & Electronics**  
**Arduino Microcontrollers: Building Smart Art**  
**ENTRY LEVEL**  
Arduino is an open-source electronics platform based on flexible, easy-to-use hardware and software. It is perfect for artists, designers, hobbyists, and anyone interested in making intelligent creations that can sense and act in the real world. The types of sensors and actuators possible are nearly limitless! Starting with the basics, we thoroughly review Arduino’s hardware and software components, andCyberchips hands-on lab time deepens your understanding and enables you to create interactions of your own. An Arduino board and accessories are provided and students take home all components that are part of their final project. **NOTE:** A laptop computer is required.  
**SESSION**  
5 SESSIONS  
Apr 11–May 9  Tuesdays  6:30–9:30 pm  3KIN17B17-A  
Price $355.00  Member Price $328.50

**Electromechanics for Everything**  
**ENTRY LEVEL**  
Use the simplest of electronic and mechanical components to make things spin, twitch, jump, bend, and wiggle. This class covers switches, buttons, relays, motors, servos, and solenoids. We will also explore some basic analog and digital control circuits, AC/DC current, and safety. The techniques taught in this class can be applied to almost any kind of project.  
**SESSION**  
5 SESSIONS  
Apr 12–May 10  Wednesdays  6:30–9:30 pm  3KIN18E17-A  
Price $310.00  Member Price $284.50

**Three-Dimensional Metalsmiting**  
**CONTINUING**  
Learn new techniques and take on design challenges to further your understanding of fine metalwork. Working in copper, brass, and silver, you will learn how to incorporate movement through hinge making and how to use handmade plastic dies with the hydraulic press. Students learn to create 3-D multiples and hollow forms for use in jewelry, boxes, and lamps.  
**SESSIONS**  
15 hours from $20 per hour  
May 23–Jun 20  Tuesdays  7–10 pm  3KIN29B17-A  
Price $330.00  Member Price $304.00

**Mechanical Sculpture I**  
**ENTRY LEVEL**  
Learn how to make your creations move! This course introduces simple and complex mechanisms including gears, cams, pulleys, and linkages. You will learn how to create, convert, and control movement, along with combining these elements to get the complex motion you desire. Hands-on lab time using foam board, plastic, and wood deepens your understanding of these concepts, which you can apply to other materials. Personal projects and interests are welcomed and encouraged.  
**SESSIONS**  
15 hours from $21 per hour  
May 22–Jun 19  Mondays  6:30–9:30 pm  3KIN15B17-A  
Price $345.00  Member Price $319.50

**Cartoneria (Mexican Paper Sculpture)**  
**ENTRY LEVEL**  
Learn cartoneria, the ancient and popular art form of Mexican paper maché. Cartoneria combines Aztec styles with Spanish techniques and is deeply rooted in ancient Mexican legends, traditions, and craftsmanship. In this course you will create fantastic and colorful sculptures from paper and recycled materials, using mythological beasts and characters as a starting point.  
**SESSIONS**  
24 hours from $10 per hour  
Apr 26–Jun 14  Wednesdays  7–10 pm  3TEX29A17-B  
Price $285.00  Member Price $260.00

**Friday Flame: Leather**  
**CONTINUING**  
End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece! **See page 6 for more Friday Flame options.**  
**SESSION**  
5 SESSIONS  
May 24–Jun 21  Wednesdays  7–10 pm  4TEX18B17-A  
Price $375.00  Member Price $345.00

**Leather, Textiles, & Fine Art**  
**ENTRY LEVEL**  
In this course, you will learn the art of bookbinding, to create beautiful personal books for capturing memories, ideas, drawings, and more. We will focus on the foundation of bookbinding technique, history, and materials. You will construct book blocks, practice stitching techniques, and design covers that express your creative voice. Traditional and contemporary tools will be used to construct several types of books.  
**SESSIONS**  
15 hours from $22 per hour  
Apr 15–May 20  Saturdays  1–4 pm  4TEX04B17-A  
Price $370.00  Member Price $344.00

**Leather Working I**  
**ENTRY LEVEL**  
Learn cartoneria, the ancient and popular art form of Mexican paper maché. Cartoneria combines Aztec styles with Spanish techniques and is deeply rooted in ancient Mexican legends, traditions, and craftsmanship. In this course you will create fantastic and colorful sculptures from paper and recycled materials, using mythological beasts and characters as a starting point.  
**SESSIONS**  
15 hours from $23 per hour  
May 6 & 7  Sat & Sun  10 am–6 pm  3KIN29A17-A  
Price $375.00  Member Price $345.00

**Continued**
Machine Shop

The Crucible

Machines: Turning & Milling I

**ENTRY LEVEL**

Learn about materials, machine design, drafting, cutting feeds and speeds, tooling, and precision measurement, using the milling and lathe machines to fabricate simple projects. These machines are the cornerstones of a machine shop, producing with precision and accuracy, but among the most complicated tools to operate. The goal of this class is to learn the capabilities and scope of these versatile machines.

**10 SESSIONS**

- 30 hours from $20 per hour
- Apr 11–Jun 13: Tuesdays 7–10 pm 3MAC10B17-A
- Apr 13–Jun 15: Thursdays 7–10 pm 3MAC10B17-B
- Jul 11–Aug 10: Thursday 7–10 pm 3MAC10B17-A

Price $555.00  Member Price $511.00

Moldmaking

Moldmaking I: Plaster

**ENTRY LEVEL**

Plaster is the essential foundation for most molding and casting processes. The primary goal in this class is to make multiple-piece plaster molds, which are used extensively for producing ceramics via slip casting. Once you have created a mold you will have a better understanding of moldmaking, regardless of the material or process used. Molds from this class might be used in another class, such as ceramics. Personal projects are welcome, subject to size limitations.

**5 SESSIONS**

- 15 hours from $35 per hour
- Apr 13–May 11: Thursdays 6:30–9:30 pm 3MDL10B17-A

Price $200.00  Member Price $184.50

Moldmaking II: Silicone Rubber

**ENTRY LEVEL**

In this class you will learn to make silicone molds, the kind used by model makers, foundries, sculptors, and other professionals. These molds are suitable for casting other materials including concrete, wax, resin, and silicone. Molds can also be stored for later use in another class that uses wax castings. A plaster case is made to support the silicone material and help hold its shape. Personal projects are welcome, subject to size limitations. **RECOMMENDED PREREQUISITE: Moldmaking I: Plaster**

**5 SESSIONS**

- 15 hours from $20 per hour
- May 25–Jun 22: Thursdays 6:30–9:30 pm 3MDL31B17-A

Price $300.00  Member Price $282.00

Machine Shop Lab

CONTINUING

Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials. **RECOMMENDED PREREQUISITE: The Mother Machines: Turning & Milling I**

**5 SESSIONS**

- 20 hours from $13 per hour
- May 24–Jun 21: Wednesday 6–10 pm 4MAC71B17-A

Price $260.00  Member Price $242.00

Moldmaking and Casting with Plastic

**ENTRY LEVEL**

Learn the secrets of plastic casting using flexible molds, just like the ones that professionals use for product development. You will make molds and use them to create plastic reproductions. Personal projects are welcome, subject to size limitations.

**5 SESSIONS**

- 15 hours from $21 per hour
- May 22–Jun 19: Mondays 6:30–9:30 pm 4MLD12B17-A

Price $350.00  Member Price $324.50

EL Wire Workshop

**ENTRY LEVEL**

Add sparkly shimmer to sculpture, interiors, and wearable art with electroluminescent wire. Also known as EL-wire, it is a decorative, flexible wire that glows much like neon. This class introduces the technology and craft of soldering and working with EL-wire. You will learn basic soldering techniques, as well as various ways to assemble and attach wire to fabric, wood, and plastic. Drivers and sequencers for animation and advanced techniques will be introduced.

**1 SESSION**

- 4 hours from $51 per hour
- Jul 9: Saturday 10 am–5 pm

Price $220.00  Member Price $204.50

Neon Lab

CONTINUING

Lab sessions are a great benefit, exclusively for Crucible members! Practice the skills you learn in class and explore new possibilities with your craft. No instruction is provided during lab sessions, but a lab monitor will be present to answer questions, manage safety, and provide overall support. You are free to come and go at your convenience during open lab hours, however you must provide your own materials. **RECOMMENDED PREREQUISITE: Neon I**

**5 SESSIONS**

- 15 hours from $30 per hour
- Apr 16–May 21: Sundays 2–5 pm 3NEL10F17-A

Price $220.00  Member Price $204.50

Neon & Light

Neon I

**ENTRY LEVEL**

Light up your life with neon! In this class you will learn the skills needed to complete a project in neon and an illuminated project. In addition to hands-on instruction in tools and techniques, this class includes discussion of design and aesthetic considerations. Transformers are provided.

**5 SESSIONS**

- 15 hours from $26 per hour
- Apr 13–May 11: Saturdays 10 am–1 pm 3NEL10F17-A

Price $245.00  Member Price $211.00

Neon II

**CONTINUING**

Building on skills developed in Neon I, this class emphasizes the decisions you make in creating a unique artwork using neon illumination. Classwork includes discussion of the expanded use of color, choice of glass size, bombarding and manifold operation, self-directed sculptural conception, and construction. You will have the opportunity to complete two or three illuminated projects. **RECOMMENDED PREREQUISITE: Neon I**

**5 SESSIONS**

- 15 hours from $25 per hour
- May 27–Jun 24: Saturdays 10 am–1 pm 3NEL10F17-A

Price $240.00  Member Price $215.50

Demystifying the Light Emitting Diode (LED)

**ENTRY LEVEL**

Learn about LEDs and the basic circuits needed to make them work. LEDs are efficient, inexpensive, and long lasting. They vary in color, shape, intensity, and size. Students receive a complete kit of LEDs and parts to use in class and for future projects.

**1 SESSION**

- 7 hours from $30 per hour
- Jul 9: Sunday 10 am–5 pm 5NEL10F17-A

Price $230.00  Member Price $210.50

TheCrucible.org      510.444.0919  || Volume 3 - 2017
Welding

Friday Flame: MIG Welding

**ENTRY LEVEL**

End the workweek with fire, friends, and a toast. Join us for Friday Flame, a unique night focused on industrial arts and good company. Enjoy a 2-hour workshop creating a work of art to take home. Then sip wine or beer with the group and marvel at your new masterpiece!

See page 6 for more Friday Flame options.

**Welded Sculpture II**

**CONTINUING**

Take your sculptural techniques to the next level in this engaging course. Advance your skills and incorporate new common metals, such as stainless steel and cast iron, into your piece. Students develop advanced welding techniques and receive instruction about new fabrication tools. We will expand on different finishing techniques and patinas to give your sculpture a more polished and professional appearance.

**PREREQUISITE:** Welded Sculpture I

**1 SESSION**

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<th>WEEKEND</th>
<th>15 hours from $23 per hour</th>
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<tr>
<td>Jun 24 &amp; 25</td>
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**Price $380.00 Member Price $349.50**

**MIG Welding I**

**ENTRY LEVEL**

MIG (metal inert gas) is the most common type of modern welding. It is a process by which a welding machine focuses electricity along a moving metal wire that is fed through a hose to a handheld torch. Student welders manipulate this torch as the electricity melts the wire and creates a weld. You will learn about the fundamentals of MIG welding, such as metallurgy, preparation, joints, technique, and safety. We will also cover plasma torch cutting. The class begins with a basic, technical welding exercise, then transitions into a small creative project. Come with ideas for a simple project.

**15 SESSIONS**

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<th>5 SESSIONS</th>
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<tr>
<td>Aug 12 &amp; 13</td>
<td>Sat &amp; Sun 10 am–6 pm</td>
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**Price $415.00 Member Price $381.50**

**Oxy-acetylene Welding**

**ENTRY LEVEL**

Learn to weld using a torch that burns a mixture of oxygen and acetylene gases. You will gain skills in cutting, joining, and shaping sheet metal to make a geometric candleholder along with another small project of your choice. This class covers plasma cutting and oxy-acetylene cutting, and introduces how to join metals by brazing.

**WEEKEND**

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**Price $415.00 Member Price $381.50**

**TIG Welding I**

**ENTRY LEVEL**

Weld any metal you desire, including steel, stainless steel, bronze, copper, aluminum, or titanium. TIG (tungsten inert gas) welding is a precise method that makes clean, focused welds on everything from super-thin to very thick materials. In this introductory class, you will use steel to develop a series of fundamental welding techniques. Students will complete a small project by the end of the class.

**WEEKEND**

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<td>Apr 29 &amp; 30</td>
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<td>Jul 15 &amp; 16</td>
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**Price $25.00 Member Price $22.50**

**TIG Welding II**

**CONTINUING**

Build on what you have learned in TIG Welding I. Have your technique and expand your skillset through a series of exercises that help you develop precision and control, as well as learn to prepare and weld various types of joints used in fabrication. We will also venture into the variety of other metals that can be welded with TIG, emphasizing aluminum and copper. This class will prepare you to work on your own, either in your own shop or through the CREATE program.

**PREREQUISITE:** TIG Welding I

**5 SESSIONS**

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<td>Aug 12 &amp; 13</td>
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**Price $415.00 Member Price $381.50**

**Wood + Metal**

**ENTRY LEVEL**

Learn the fundamental properties of wood and metal, two titans of arts materials. Students create a custom piece of furniture that incorporates both, highlighting the ways each one complements the other. Bring your ideas and measurements for a small piece of custom wood and metal furniture. Past projects include coffee tables, bookshelves, and small desks.

**10 SESSIONS**

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<th>40 hours from $19 per hour</th>
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<td>Apr 17–Jun 19</td>
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**Price $835.00 Member Price $785.50**

**Glass Blowing into Metal**

**CONTINUING**

Using foundational techniques in sculpture and metal fabrication, students will design and MIG weld a framework for blowing a unique glass and metal sculpture. Potential projects include vases, abstract sculptures, lighting fixtures, and more. The possibilities are virtually limitless with this dynamic material interaction. Once the metal portion is completed, students will assist a professional glassblower in completing their work. This last section will cover basic processes and techniques within the hot shop, priming students to explore glass blowing.

**5 SESSIONS**

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<th>20 hours from $21 per hour</th>
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<td>Jul 10–Aug 7</td>
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**Price $455.00 Member Price $419.50**

**The Art of Metal: Design & Furniture Fabrication**

**CONTINUING**

Fabricate one-of-a-kind metal furniture for your home! Going beyond basic MIG welding, this course focuses on designing and fabricating functional and aesthetically interesting benches, coffee tables, flower stands, cabinets, wheeled furniture, shelves, coat racks, and just about any other piece of furniture you might like to fabricate. Be prepared to weld and cut on the first day as a review.

**RECOMMENDED PREREQUISITE:** MIG Welding I

**10 SESSIONS**

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<th>30 hours from $20 per hour</th>
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<td>Apr 19–Jun 28</td>
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**Price $605.00 Member Price $560.00**

**Burn Barrel**

**ENTRY LEVEL**

Use your creativity to design and create a decorative outdoor fire pit, called a burn barrel, out of a steel drum. We will focus on the subtractive process using oxy-acetylene torch cutting techniques. Please come to class with a sketchbook and project ideas.

**1 SESSION**

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<th>7 hours from $31 per hour</th>
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<td>Aug 5</td>
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**Price $235.00 Member Price $219.00**
Woodworking

Fundamentals of Woodworking
ENTRY LEVEL
Begin your woodworking experience in this introduction to hand tools and techniques. We will cover the basics of wood technology, what tools to use, how to use them, and how to care for them. Bring a notebook and comfortable shoes, as this will be a fast-paced, hands-on overview.

WEEKEND
10 hours from $23 per hour
Apr 15 & 16 Sat & Sun 10 am–6 pm 5WOD09A17-A
May 13 & 14 Sat & Sun 10 am–6 pm 3WOD09A17-B
May 27 & 28 Sat & Sun 10 am–6 pm 4WOD09A17-C
Jun 24 & 25 Sat & Sun 10 am–6 pm 4WOD09A17-D
Jul 15 & 16 Sat & Sun 10 am–6 pm 5WOD09A17-A
Aug 19 & 20 Sat & Sun 10 am–6 pm 5WOD09A17-B

Price $395.00  Member Price $359.00

Woodworking I
ENTRY LEVEL
Learn how to use power tools, as well as traditional and modern hand tools, safely and effectively. Class assignments introduce basic concepts and techniques, to give you the skills needed for many woodworking projects, such as mill board flattening and straightening, creating strong joints for connecting wood, and gluing boards together to make a panel. Students leave with a strong foundation for more advanced wood classes and a small end table. All tools for learning are provided.

30 SESSIONS
10 hours from $27 per hour
Apr 15–27 Mon–Fri 10 am–2 pm 3WOD19A17-A
Apr 24–May 5 Mon–Fri 10 am–2 pm 5WOD19A17-B
Apr 13–24 Mon–Wed 10 am–2 pm 3WOD19A17-C
May 23–24 Mon–Wed 10 am–2 pm 5WOD19A17-D

Price $760.00  Member Price $660.00

Woodturning I
ENTRY LEVEL
Use a lathe to turn a rough piece of wood into a beautifully shaped spindle or bowl. In this jam-packed course, you will learn the basics of the turning process. The class will cover tool usage and sharpening, as well as wood selection, preparation, and finishing.

WEEKEND
12 hours from $28 per hour
May 6 & 7 Sat & Sun 11 am–5 pm 3WOD15A17-A
Jun 3 & 4 Sat & Sun 11 am–5 pm 3WOD15A17-B
Jul 8 & 9 Sat & Sun 11 am–5 pm 3WOD15A17-C
Jul 29 & 30 Sat & Sun 11 am–5 pm 3WOD15A17-B

Price $380.00  Member Price $347.00

Woodturning II
ENTRY LEVEL
Continuing
Explore more advanced projects, now that you are comfortable using the lathe and understand basic tool usage. This class gives students more time on the machines with the guidance of the instructor. Demonstrations in additive sculpture will be emphasized. Bring your own materials and project ideas.

WEEKEND
12 hours from $29 per hour
Jun 17 & 18 Sat & Sun 11 am–5 pm 4WOD13A17-A
Jul 5 & 6 Sat & Sun 11 am–5 pm 4WOD13A17-B

Price $380.00  Member Price $347.00

Pen In One Day
ENTRY LEVEL
Students will make two pens at the lathe, one of solid wood and one of your own design built up from several pieces of wood. Since turning pens is a quick process, we will have time to teach you how to choose woods, how to prepare and mount wood on the lathe, and several of the more popular finishes. We will cover safe operation of a lathe, demonstrate how to use common woodworking tools, practice tool sharpening techniques, and discuss options for what kind of lathe you might want in the future, from a small pen lathe to more robust machines that can handle much bigger projects. Bring clothes that can get dirty.

1 SESSION
6 hours from $30 per hour
Apr 29 Saturday 10 am–5 pm 3WOD25A17-A
Apr 30 Saturday 10 am–5 pm 3WOD18A17-B

Price $60.00  Member Price $54.00

Spoon Carving By Hand
ENTRY LEVEL
Learn basic principles of working with wood while making your own carved wooden spoon. Topics covered include different types of wood, grain direction, carving, shaping, and food safe finishes. Through short demonstrations and lectures, we will use a combination of power and hand tools, exploring the material for its functionality as a creative medium. At the end of the workshop, students leave with a unique spoon, ready to use!

1 SESSION
6 hours from $30 per hour
Jul 22 & 23 Sat & Sun 10 am–4 pm 3WOD16A17-A

Price $300.00  Member Price $273.00

Hand Cut Dovetails
ENTRY LEVEL
Cutting dovetail joints by hand is a milestone in the path of a fine woodworker. Students learn how to use chisels and saws to cut dovetails precisely, getting feedback on how to improve their work with hand tools. This class is appropriate for beginners and those with some woodworking experience who wish to further their hand tool skills.

WEEKEND
14 hours from $30 per hour
Jun 10 & 11 Sat & Sun 10 am–4 pm 5WOD08A17-A

Price $460.00  Member Price $426.50
The Crucible offers a unique and fun learning experience for youth between ages 8 and 18. Youth classes explore blacksmithing, welding, woodworking, glass blowing, ceramics, and other arts. Students can apply what they’ve learned here—creative problem solving, scientific principles, and teamwork—at school and beyond.

Hands-on Creativity
At The Crucible, we learn by doing. Classes can involve exploring geometry by welding a customized bike frame, blowing glass vessels after learning about heat application, or soldering components to build a battery powered beetle-bot. We have a range of courses available in our weekend programs, after school programs, and youth camps.

Putting the “A” in STEAM
Blending creativity and art into STEAM (Science, Technology, Engineering, Art, and Math) helps kids really enjoy designing and building projects from their own imagination. The Crucible’s non-competitive environment lets students choose their own direction, not just copy what the teachers demonstrate. Kids finish each course with a piece of art to take home.

Something for Everyone
Youth classes are geared specifically for ages 8-11, ages 12-18, or ages 14-18. In addition to regularly scheduled classes, The Crucible offers weeklong camps in the Summer and on Spring Break, project-based school and organization workshops, and the popular bicycle Fix-A-Thon and Earn-A-Bike programs. Need-based scholarships are available.

Youth Gravity Cars (ages 8-11)
Build, Test, Adjust, Race! Gravity Cars is a no-rules miniature car building and racing competition on a large, undulating track inspired by the Nerdy Derby. Gravity Cars reward creativity, cleverness, and ingenuity.

SUMMER CAMP  25 hours from $22 per hour
Jun 19–23 Mon–Fri 1–4 pm 5YWHL42M17-YA
Jun 26–30 Mon–Fri 1–4 pm 5YWHL42M17-YB
Jul 10–14 Mon–Fri 1–4 pm 5YWHL42M17-YC
Jul 17–21 Mon–Fri 1–4 pm 5YWHL42M17-YD
Jul 24–28 Mon–Fri 1–4 pm 5YWHL42M17-YE
Jul 31–Aug 4 Mon–Fri 1–4 pm 5YWHL42M17-YF
Price $370.00 Member Price $339.00

Youth Frame Alteration: Art Bike (ages 14-18)
Customize your bicycle in this exciting workshop! Students learn basic fabrication skills in MIG welding, plasma cutting, grinding, and finishing to reconstruct bikes. Frames are stripped and you learn to redesign and alter handlebars, rims, seat posts, and frames to create a unique look that makes your bike the talk of the neighborhood. You are required to bring your own steel-framed bicycle.

SUMMER CAMP  35 hours from $21 per hour
Jun 26–30 Mon–Fri 9 am–4 pm 5YWHL11P17-YA
Jul 17–21 Mon–Fri 9 am–4 pm 5YWHL11P17-YB
Jul 31–Aug 4 Mon–Fri 9 am–4 pm 5YWHL11P17-YC
Price $800.00 Member Price $735.00

Youth Skateboard Building (ages 12-18)
Design and build your very own custom skateboard from seven layers of hard maple veneer. Learn woodworking techniques and the concepts of vacuum press veneering and bending wood. You will practice using basic woodworking power tools, including the band saw and power sanders, as well as hand tools, such as files, rasps, and planes. Apply a basic wood finish and set up your skateboard deck to ride. This course is based on the book The Handmade Skateboard by Matt Berger.

SUMMER CAMP  15 hours from $24 per hour
Jul 10–14 Mon–Fri 1–4 pm 5YWHL17M17-A
Jul 17–21 Mon–Fri 1–4 pm 5YWHL17M17-B
Jul 31–Aug 4 Mon–Fri 1–4 pm 5YWHL17M17-B
Price $485.00 Member Price $459.00
Youth Blacksmithing II (ages 12-18)

CONTINUING

This class, designed as a sequel to Youth Blacksmithing I, extends your basic blacksmithing abilities. Techniques covered will include scroll making, collaring, basic tool making, and heat treating. This class provides skills you need for more advanced classes, such as Techniques in Ornamental Ironwork.

PREREQUISITE: Youth Blacksmithing I

SUMMER CAMP 15 hours from $17 per hour

- Jun 19–23 Mon–Fri 9 am–12 pm 5YBLK10K17-YA
- Jul 10–14 Mon–Fri 9 am–12 pm 5YBLK10K17-YB
- Jul 17–21 Mon–Fri 9 am–12 pm 5YBLK10K17-YC
- Jul 31–Aug 4 Mon–Fri 9 am–12 pm 5YBLK10K17-YD

Price $285.00  Member Price $263.50

Youth Clay Critters (ages 8-11)

Explore clay as a sculptural material to create critters of your own imagination! Learn hand-building techniques, such as slabs, coils, and pinching. We will cover several different surface treatments, traditional glazes, and non-traditional approaches.

SUMMER CAMP 15 hours from $17 per hour

- Jun 19–23 Mon–Fri 9 am–12 pm 5YCER10K17-YA
- Jul 17–21 Mon–Fri 9 am–12 pm 5YCER10K17-YB
- Jul 31–Aug 4 Mon–Fri 9 am–12 pm 5YCER10K17-YC

Price $285.00  Member Price $263.50

Youth Portraits in Clay (ages 12-18)

Use hand-building techniques to create contemporary busts out of clay. This class is great for students interested in sculpting portraits and taking their clay skills to the next level. We will also finish the class with raku, a hands-on firing technique using fire and smoke to create beautiful metallic glaze finishes.

SUMMER CAMP 15 hours from $25 per hour

- Jul 10–14 Mon–Fri 1–4 pm 5YCER25M17-YA
- Jul 31–Aug 4 Mon–Fri 1–4 pm 5YCER25M17-YB

Price $335.00  Member Price $311.50

Youth Enameling (ages 12-18)

Discover the ancient art of fusing glass to metal. You will learn about metal preparation and fabrication for enameling, kiln properties and methods for firing, properties of enamel, and dry and wet application techniques.

SUMMER CAMP 15 hours from $18 per hour

- Jun 26–30 Mon–Fri 9 am–12 pm 5YENL10M17-YA
- Jul 24–28 Mon–Fri 9 am–12 pm 5YENL10M17-YB

Price $305.00  Member Price $280.50

Youth Foundry

Youth Adventures in Sand Casting (ages 12-18)

In this introduction to foundry processes, you will turn your ideas into cast-metal sculptures as you learn the basics of metal casting. You will make a sculpture, create a mold in resin-bonded sand, and then watch as molten aluminum is poured into your mold. Once cooled, you have your own unique, finished sculpture!

SUMMER CAMP 15 hours from $21 per hour

- Jun 19–23 Mon–Fri 9 am–12 pm 5YFOU22K17-YA
- Jul 17–21 Mon–Fri 9 am–12 pm 5YFOU22K17-YC
- Jul 31–Aug 4 Mon–Fri 9 am–12 pm 5YFOU22K17-YE

Price $345.00  Member Price $319.50
Youth Glass Blowing

Youth Glass Blowing (ages 14-18)

Learn the basic skills and techniques to create a personalized hand-blown glassware. With supportive instruction in a team environment, you will learn to safely work with molten glass, gather glass from the furnace, apply colors, and shape and sculpt molten glass. Be prepared to work in the heat!

**SUMMER CAMP**

**15 hours from $36 per hour**

**Price $615.00**  **Member Price $566.00**

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<td>Jun 19–23</td>
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<td>Jul 10–14</td>
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<td>Jul 17–21</td>
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<td>Jul 24–28</td>
<td>Mon–Fri</td>
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<td>Jul 31–Aug 4</td>
<td>Mon–Fri</td>
<td>9 am–12 pm 5YGLB10K17-YG</td>
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Youth Glass Blowing II

Youth Glass Blowing II (ages 14-18)

CONTINUING

Continue to work towards glass blowing proficiency in this intermediate-level class. We will utilize new tools, techniques, and an expanded knowledge of the physics involved to help hone our hot shop skills. You will group into teams to create both functional and sculptural pieces. Be prepared to work in the heat.

**PREREQUISITE: Youth Glass Blowing I**

**SUMMER CAMP**

**15 hours from $38 per hour**

**Price $655.00**  **Member Price $633.00**

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<td>Jul 31–Aug 4</td>
<td>Mon–Fri</td>
<td>1–4 pm 5YGLB31K17-YA</td>
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Youth Glass Casting & Coldworking

Youth Glass Casting (ages 12-18)

Use clay and wax to create a positive form, such as a starfish, and then transform it into a glass sculpture. Students learn how to sculpt wax or clay and create molds using plaster and silica. Glass will be melted into the molds in a kiln firing, resulting in a clear or colored glass object. This class will also explore surface imagery on glass through a quick sandblasted drinking glass project.

**SUMMER CAMP**

**15 hours from $28 per hour**

**Price $275.00**  **Member Price $250.00**

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<td>Mon–Fri</td>
<td>1–4 pm 5YGLC10M17-YD</td>
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Youth Glass Fusing & Slumping

Youth Glass Fusing & Slumping (ages 12-18)

Create beautiful glass ornaments, pendants, marbles, and more! Learn how to use tools and equipment like an oxy-propane torch to melt and shape glass with confidence. We will cover a variety of techniques including color pulling and applying, color pattern application, and marble making.

**SUMMER CAMP**

**15 hours from $24 per hour**

**Price $395.00**  **Member Price $364.50**

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<td>Jul 31–Aug 4</td>
<td>Mon–Fri</td>
<td>1–4 pm 5YGLF10M17-YA</td>
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Youth Glass Flameworking

Youth Glass Flameworking (ages 12-18)

Create beautiful glass ornaments, pendants, marbles, and more! Learn how to use tools and equipment like an oxy-propane torch to melt and shape glass with confidence. We will cover a variety of techniques including color pulling and applying, color pattern application, and marble making.

**SUMMER CAMP**

**15 hours from $24 per hour**

**Price $395.00**  **Member Price $364.50**

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<tr>
<td>Jul 31–Aug 4</td>
<td>Mon–Fri</td>
<td>1–4 pm 5YGLF10M17-YA</td>
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Youth Glass Creatures in Fused Glass (ages 12-18)

Create a variety of creatures and habitats in both warm and cold glass. Students will learn how to cut, shape, and embellish glass using a variety of tools, molds, and machines. 2-D and 3-D projects may include fused tiles, jewelry, treasure chests, wind chimes, cityscapes, toadstools, insects, and jellyfish. You will be encouraged to choose projects and create art based on your own interests.

**SUMMER CAMP**

**15 hours from $23 per hour**

**Price $375.00**  **Member Price $345.00**

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<td>Jun 26–30</td>
<td>Mon–Fri</td>
<td>9 am–12 pm 5YGLA21K17-YA</td>
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Youth Flameworking Immersion Program

Youth Flameworking Immersion Program (ages 12-18)

Dive deep in this beginning and continuing level youth workshop. Students take an immersive step into weeklong study, becoming young artisans along the way. Learn the science and lore of glass flameworking, while you create beautiful objects, such as ornaments, pendants, sculptures and exquisite marbles. Safe and efficient operation of oxy-propane torches, kilns and shaping tools will be covered. You will also be exposed to theory, principles, and extensive techniques that let you design and create your own independent projects. Advanced color pulling, glass compatibility, and patterning techniques will have you brimming with new ideas!

**SUMMER CAMP**

**30 hours from $21 per hour**

**Price $720.00**  **Member Price $663.00**

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<td>Jun 26–30</td>
<td>Mon–Fri</td>
<td>9 am–4 pm 5YGLF85P17-YA</td>
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Youth Glass Flameworking

Youth Glass Flameworking (ages 12-18)

Create beautiful glass ornaments, pendants, marbles, and more! Learn how to use tools and equipment like an oxy-propane torch to melt and shape glass with confidence. We will cover a variety of techniques including color pulling and applying, color pattern application, and marble making.

**SUMMER CAMP**

**15 hours from $24 per hour**

**Price $395.00**  **Member Price $364.50**

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Youth Glass Creatures in Fused Glass (ages 12-18)

Create a variety of creatures and habitats in both warm and cold glass. Students will learn how to cut, shape, and embellish glass using a variety of tools, molds, and machines. 2-D and 3-D projects may include fused tiles, jewelry, treasure chests, wind chimes, cityscapes, toadstools, insects, and jellyfish. You will be encouraged to choose projects and create art based on your own interests.

**SUMMER CAMP**

**15 hours from $23 per hour**

**Price $375.00**  **Member Price $345.00**

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Youth Chibi: Miniature Figurines (ages 8-11)

Learn the basics of preparing, shaping, sculpting, cane making, and baking polymer clay. Use your own brightly colored clay to make small sculptures known as chibis and incorporate them into wearable objects. You will leave this class with small memorable objects and will be wearing self-made accessories with pride!

**SUMMER CAMP**
15 hours from $20 per hour

- **Jun 19–23** Mon–Fri 1–4 pm 5YJWL14M17-YA
- **Jul 17–21** Mon–Fri 1–4 pm 5YJWL14M17-YB
- **Jul 31–Aug 4** Mon–Fri 1–4 pm 5YJWL14M17-YC

Price $290.00 Member Price $265.00

Youth Casting Wax to Silver (ages 12-18)

**CONTINUING**

Learn the lost wax casting process, an age-old sculptural jewelry-polishing technique that involves creating a positive model out of wax, using that model to make a mold, then using the mold to cast a form in metal. You will carve, cast, and finish at least one pendant or ring in silver, and experiment with different types of wax and their working qualities as you learn the techniques and tools of this process. Bring your sketches and ideas for jewelry. PREREQUISITE: Youth Exploration in Metal Jewelry.

**SUMMER CAMP**
15 hours from $25 per hour

- **Jul 17–21** Mon–Fri 1–4 pm 5YJWL16M17-YA
- **Jul 31–Aug 4** Mon–Fri 1–4 pm 5YJWL16M17-YB

Price $425.00 Member Price $394.50

Kandi Cuffs and Perlers (ages 8-11)

Learn a variety of beading styles to create fun accessories. Students will use Perler Beads to create jewelry known as kandi cuffs, then personalize their work with small objects brought in from home.

**SUMMER CAMP**
15 hours from $20 per hour

- **Jun 26–30** Mon–Fri 9 am–12 pm 5YJWL22K17-A
- **Jul 10–14** Mon–Fri 9 am–12 pm 5YJWL22K17-B
- **Jul 17–21** Mon–Fri 9 am–12 pm 5YJWL22K17-C
- **Jul 31–Aug 4** Mon–Fri 9 am–12 pm 5YJWL22K17-D

Price $340.00 Member Price $313.50

Youth Extreme Gizmos (ages 8-11)

Learn kinetic techniques to design, engineer, and construct a mechanical sculpture, contraption, or gadget with lights and moving parts. Using new and salvaged components, you will learn how motors, lights, and switches work, how to create mechanical structures, how to create different types of motion, and how to incorporate switches to operate your very own fantastic contraption!

**SUMMER CAMP**
15 hours from $18 per hour

- **Jun 19–23** Mon–Fri 9 am–12 pm 5YKIN10K17-YA
- **Jul 10–14** Mon–Fri 9 am–12 pm 5YKIN10K17-YB
- **Jul 17–21** Mon–Fri 9 am–12 pm 5YKIN10K17-YC
- **Jul 24–28** Mon–Fri 9 am–12 pm 5YKIN10K17-YD
- **Jul 31–Aug 4** Mon–Fri 9 am–12 pm 5YKIN10K17-YE

Price $305.00 Member Price $280.00

Youth Kinetics Immersion Program (ages 12-18)

Dive deep in this beginning and continuing level youth workshop. Students take an immersive step into weeklong study, becoming young makers along the way. We will construct mini-sumobots, small robots that can seek out their opponents and push them out of the competition ring. Students learn to build circuits by identifying components, assembling a circuit board, and soldering parts together. We will build the chassis of our sumobots with simple materials, adding motors and sensors to help the bots move and navigate. The week will culminate with a showdown where students can pit their bots against each other!

**SUMMER CAMP**
35 hours from $18 per hour

- **Jun 26–30** Mon–Fri 9 am–4 pm 5YKIN85P17-YA

Price $720.00 Member Price $663.00

Youth Kinetics & Electronics

Youth Exploration in Metal Jewelry (ages 12-18)

Make a fashion statement! Using copper, silver, and other nonferrous metals, you will learn jewelry and metal art skills to create trendy jewelry of your own design. In this hands-on class, you will be taught filing, sanding, texturing, and polishing techniques used in creating metal jewelry. You will leave this class wearing a project of your own design.

**SUMMER CAMP**
15 hours from $20 per hour

- **Jun 19–23** Mon–Fri 9 am–12 pm 5YJWL10M17-YA
- **Jul 10–14** Mon–Fri 9 am–12 pm 5YJWL10M17-YB
- **Jul 17–21** Mon–Fri 9 am–12 pm 5YJWL10M17-YC
- **Jul 24–28** Mon–Fri 9 am–12 pm 5YJWL10M17-YD
- **Jul 31–Aug 4** Mon–Fri 9 am–12 pm 5YJWL10M17-YE

Price $330.00 Member Price $304.50

Youth Jewelry Immersion Program (ages 12-18)

Dive deep in this beginning and continuing level youth workshop. Students take an immersive step into weeklong study, becoming young artisans along the way. Using copper, silver, and other nonferrous metals, you will learn jewelry and metal art skills to create trendy jewelry of your own design. We will cover filing, sanding, texturing, and polishing techniques used in creating metal jewelry. You will also be exposed to theory, principles, and extensive techniques that let you design and create your own independent projects.

**SUMMER CAMP**
35 hours from $18 per hour

- **Jun 26–30** Mon–Fri 9 am–4 pm 5YJWL85P17-YA

Price $720.00 Member Price $663.00

Youth Radical Robots (ages 12-18)

Build a simple remote-controlled robot. From the wheels up, you will create your robot’s shape and personality from salvaged components, mechanisms, and electrical components. Learn soldering, mechanical construction techniques, and how to remove and repurpose these items.

**SUMMER CAMP**
15 hours from $17 per hour

- **Jul 31–Aug 4** Mon–Fri 9 am–12 pm 5YJWL14M17-YA
- **Jul 24–28** Mon–Fri 9 am–12 pm 5YJWL14M17-YB
- **Jul 31–Aug 4** Mon–Fri 9 am–12 pm 5YJWL14M17-YC

Price $230.00 Member Price $213.00

Youth Kinetics & Electronics

Youth Kinetics Immersion Program (ages 12-18)

Dive deep in this beginning and continuing level youth workshop. Students take an immersive step into weeklong study, becoming young makers along the way. We will construct mini-sumobots, small robots that can seek out their opponents and push them out of the competition ring. Students learn to build circuits by identifying components, assembling a circuit board, and soldering parts together. We will build the chassis of our sumobots with simple materials, adding motors and sensors to help the bots move and navigate. The week will culminate with a showdown where students can pit their bots against each other!

**SUMMER CAMP**
35 hours from $18 per hour

- **Jun 26–30** Mon–Fri 9 am–4 pm 5YKIN85P17-YA

Price $720.00 Member Price $663.00
Youth Cartoneria: Mexican Paper Sculpture (ages 8-11)
Learn cartoneria, the ancient and popular art form of Mexican paper-maché. Cartoneria combines Aztec styles with Spanish techniques and is deeply rooted in ancient Mexican legends, traditions, and craftsmanship. In this course you will create fantastic and colorful sculptures from paper and recycled materials, using mythical beasts and characters as a starting point.

**SUMMER CAMP**

15 hours from $18 per hour
Jun 19–23 Mon-Fri 9 am–12 pm 5YTIG10K17-YA
Jul 10–14 Mon-Fri 9 am–12 pm 5YTIG10K17-YC
Jul 24–28 Mon-Fri 9 am–12 pm 5YTIG10K17-YF
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YTIG10K17-YE

Price $270.00 Member Price $240.00

Youth Paperpalooza (ages 8-11)
Students will design one-of-a-kind, colorful block prints, make beautifully marbled paper with a unique, non-toxic, and fun method, discover the excitement of resists, explore the shimmer of embossing, and more. You will create plenty of beautiful paper creations to display, featuring swirls and kaisidoscopes of colors!

**SUMMER CAMP**

15 hours from $27 per hour
Jun 20–24 Mon-Fri 9 am–12 pm 5YTIG10K17-YA
Jul 10–14 Mon-Fri 9 am–12 pm 5YTIG10K17-YB
Jul 17–21 Mon-Fri 9 am–12 pm 5YTIG10K17-YC
Jul 24–28 Mon-Fri 9 am–12 pm 5YTIG10K17-YD
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YTIG10K17-YE

Price $355.00 Member Price $327.00

Youth Neon & Light
Youth Glass Tube Sculpture: Intro to Neon (ages 12-18)
Learn the science behind neon gases and high voltage electrical transformers as you are taught how to shape and manipulate glass tubes into letters, shapes, or figures. Bending glass in this challenging course will build hand-eye coordination and concentration skills. The goal by the end of the week is for each student to make one small, working, neon-filled luminous tube that is wired with a transformer. The piece can be taken home or incorporated into other artwork.

**SUMMER CAMP**

15 hours from $32 per hour
Jun 20–24 Mon-Fri 9 am–12 pm 5YTIG10K17-YA
Jul 10–14 Mon-Fri 9 am–12 pm 5YTIG10K17-YB
Jul 17–21 Mon-Fri 9 am–12 pm 5YTIG10K17-YC
Jul 24–28 Mon-Fri 9 am–12 pm 5YTIG10K17-YD
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YTIG10K17-YE

Price $370.00 Member Price $340.00

Youth Welding
Youth Intro to Welded Sculpture (ages 12-18)
Learn to fuse, cut, bend, and shape metal. This intensive introduction to stick welding, also known as arc welding, and oxy-acetylene torch cutting is taught by a technical pro. In-depth demonstrations and guidance will be given on the safe and effective operation of welding equipment as instructors help you create a small welded sculpture or project.

**SUMMER CAMP**

15 hours from $24 per hour
Jun 19–23 Mon-Fri 9 am–12 pm 5YTIG10K17-YA
Jul 10–14 Mon-Fri 9 am–12 pm 5YTIG10K17-YB
Jul 17–21 Mon-Fri 9 am–12 pm 5YTIG10K17-YC
Jul 24–28 Mon-Fri 9 am–12 pm 5YTIG10K17-YD
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YTIG10K17-YE

Price $400.00 Member Price $378.00

Youth MIG Welding (ages 12-18)
This is a class taught specifically for girls by professional women welders. MIG (metal inert gas) is the most common type of modern welding. It is a process by which a welding machine focuses electricity along a moving wire that is fed through a hose to a handheld torch. Student welders manipulate this torch as the electricity melts the wire and creates a weld. You will learn about the fundamentals of MIG welding, such as metallurgy, preparation, joints, technique, and safety. We will also cover plasma torch cutting. The class begins with a basic, technical welding exercise and transitions into a small creative project.

**SUMMER CAMP**

15 hours from $26 per hour
Jun 19–23 Mon-Fri 9 am–12 pm 5YMIG10K17-YA
Jul 10–14 Mon-Fri 9 am–12 pm 5YMIG10K17-YB
Jul 17–21 Mon-Fri 9 am–12 pm 5YMIG10K17-YC
Jul 24–28 Mon-Fri 9 am–12 pm 5YMIG10K17-YD
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YMIG10K17-YE

Price $420.00 Member Price $398.00

Youth TIG Welding (ages 14-18)
TIG (tungsten inert gas) welding is a highly precise method of welding that makes clean and focused welds on everything from super-thin to very thick materials. You will learn the basics of TIG welding by working with mild steel. You will create sculptures that allow you to put your creativity and welding skills to use!

**SUMMER CAMP**

15 hours from $25 per hour
Jun 19–23 Mon-Fri 1–4 pm 5YTIG10K17-YA
Jul 10–14 Mon-Fri 1–4 pm 5YTIG10K17-YB
Jul 17–21 Mon-Fri 1–4 pm 5YTIG10K17-YC
Jul 24–28 Mon-Fri 1–4 pm 5YTIG10K17-YD
Jul 31–Aug 4 Mon-Fri 1–4 pm 5YTIG10K17-YE

Price $420.00 Member Price $388.00

Youth Welded Sculpture Immersion Program (ages 12-18)
Dive deep in this beginning and continuing level youth workshop. Students take an immersive step into weeklong study, becoming young artisans along the way. Learn to fuse, cut, bend, and shape metal in this intensive introduction to stick welding, also known as arc welding, and oxy-acetylene torch cutting. Guidance will be given on the safe and effective operation of welding equipment. You will also be exposed to theory, principles, and extensive techniques that let you design and create your own independent projects. No experience necessary.

**SUMMER CAMP**

30 hours from $32 per hour
Jun 20–24 Mon-Fri 9 am–4 pm 5YTIG10K17-YA

Price $720.00 Member Price $663.00

Youth Leather Working (ages 12-18)
Learn techniques for working with leather, including cutting, edging, stitching, dyeing, and oiling. We will cover design, setting rivets, adding hardware like buckles, and safety issues. Each student will make a belt and at least one bag.

**SUMMER CAMP**

15 hours from $25 per hour
Jun 19–23 Mon-Fri 1–4 pm 5YTIG10K17-YA
Jun 20–24 Mon-Fri 1–4 pm 5YTIG10K17-YB
Jul 10–14 Mon-Fri 1–4 pm 5YTIG10K17-YC
Jul 17–21 Mon-Fri 1–4 pm 5YTIG10K17-YD
Jul 24–28 Mon-Fri 1–4 pm 5YTIG10K17-YF
Jul 31–Aug 4 Mon-Fri 1–4 pm 5YTIG10K17-YE

Price $380.00 Member Price $348.00

Youth Sewing Reconstruction: Tool Belt, Fanny Pack, or Tote Bag (ages 12-18)
Learn the basics of how to operate a sewing machine, then make a useful new object out of old pants. Cut and assemble the material to create a tool belt, fanny pack, or tote bag. Make the stuff-holder of your dreams: reinforce the bottom with leather or Cordura, decorate with metal studs or fabric paint, and add pockets, hammer loops, a water gun holster, and more.

**SUMMER CAMP**

15 hours from $22 per hour
Jun 20–24 Mon-Fri 9 am–12 pm 5YTIG10K17-YA
Jul 24–28 Mon-Fri 9 am–12 pm 5YTIG10K17-YB
Jul 31–Aug 4 Mon-Fri 9 am–12 pm 5YTIG10K17-YC

Price $380.00 Member Price $348.00

Youth Sewing Reconstruction: DIY Tailcoat / Party Jacket / Character Coat / Space Finery (ages 12-18)
Learn the basics of how to use a sewing machine and reconstruct vintage clothes into a signature garment suitable for joining the circus or starring in a space opera. Use old blazers and other garments to create your own waistcoat, tailcoat, vest, matador jacket, or anything else you can think of. Students can explore techniques such as adding pockets, patches, a hood, a tighten collar, painted details, gold trim, and fur, metal, or leather accents. Chop off the arms or add extra arm; this is your unique creation!

**SUMMER CAMP**

15 hours from $28 per hour
Jul 17–21 Mon-Fri 9 am–12 pm 5YTIG10K17-YA

Price $400.00 Member Price $370.00

Youth Leather & Textiles

Youth Woodturning
(ages 12-18)

Using a lathe, you can turn a rough piece of wood into a beautifully shaped spindle or bowl. In this jam-packed class, you will learn the basics of the turning process as you explore small bowl turning and spindle turning. The class will cover tool usage and sharpening, as well as wood selection, preparation, and finishing.

**SUMMER CAMP**
15 hours from $24 per hour

- Jun 26-30 Mon-Fri 9 am-12 pm 5YWOD10M17-YA
- Jul 17-21 Mon-Fri 9 am-12 pm 5YWOD10M17-FC
- Jul 24-28 Mon-Fri 9 am-12 pm 5YWOD10M17-YC

**Youth Woodcarving & Sculpting (ages 8-11)**

Learn the history, cultural significance, and process of woodcarving and sculpting, including design and carving approaches. Through hands-on demonstration and approach, students get expert guidance through every step of the carving process, from brainstorming to adding fine detail. You will create a unique 3-D project of your own.

**SUMMER CAMP**
15 hours from $27 per hour

- Jun 19-23 Mon-Fri 1-4 pm 5YWOD10M17-YA
- Jun 26-30 Mon-Fri 1-4 pm 5YWOD10M17-YB
- Jul 17-21 Mon-Fri 1-4 pm 5YWOD10M17-YC
- Jul 24-28 Mon-Fri 1-4 pm 5YWOD10M17-YD

**Youth Woodworking (ages 14-18)**

Learn to use hand and power tools to shape wood into objects that will last for decades. You will learn about the properties of lumber, safe tool use, measurement and layout, and fundamental woodworking joints. You will leave with an end-grain cutting board, a mitered corner box, and woodworking joints. You will leave with an end-grain cutting board, a mitered corner box, and woodworking joints.

**SUMMER CAMP**
15 hours from $24 per hour

- Jun 19-23 Mon-Fri 9 am-12 pm 5YWOD15K17-A
- Jul 10-14 Mon-Fri 9 am-12 pm 5YWOD15K17-B
- Jul 17-21 Mon-Fri 9 am-12 pm 5YWOD15K17-C

**Youth After Care**

**1 Hour After Care 4-5 pm**
You must pre-register to access After Care.
A fee of $20 per half hour will be charged for any parent arriving late after 4:30 pm.

- Jun 19-23 Mon-Fri 4-5 pm 5YACY01Q17-YA
- Jul 10-14 Mon-Fri 4-5 pm 5YACY01Q17-YB
- Jul 17-21 Mon-Fri 4-5 pm 5YACY01Q17-YC
- Jul 31-Aug 4 Mon-Fri 4-5 pm 5YACY01Q17-YD

**2 Hours After Care 4-6 pm**
You must pre-register to access After Care.
A fee of $30 per half hour will be charged for any parent arriving late after 4:30 pm.

- Jun 19-23 Mon-Fri 4-6 pm 5YACY02Q17-YA
- Jul 10-14 Mon-Fri 4-6 pm 5YACY02Q17-YB
- Jul 17-21 Mon-Fri 4-6 pm 5YACY02Q17-YC
- Jul 31-Aug 4 Mon-Fri 4-6 pm 5YACY02Q17-YD

**Youth Woodworking**

Learn to use hand and power tools to shape wood into objects that will last for decades. You will learn about the properties of lumber, safe tool use, and sharpening, as well as wood selection, and spindle turning. The class will cover tool usage, layout, and fundamental woodworking joints. You will leave with an end-grain cutting board, a mitered corner box, and the skills to build an unlimited range of wooden objects.

**SUMMER CAMP**
15 hours from $24 per hour

- Jun 26-30 Mon-Fri 9 am-12 pm 5YWOD10M17-YA
- Jul 17-21 Mon-Fri 9 am-12 pm 5YWOD10M17-FC
- Jul 24-28 Mon-Fri 9 am-12 pm 5YWOD10M17-YC

**What to Wear**
All natural fibers only! Nylon, polyester, spandex, or other synthetics can melt and cause serious injury. No flip flops, sandals, or open-toed shoes of any kind. Long pants only, no shorts or skirts. Wear layers. The studio can be very cold or very hot. TIG students must wear a long-sleeved cotton shirt that covers the skin up to your neckline.

**Behavior Policy**
The Crucible strives to create an environment that respects its participants’ physical and emotional well-being. Students are expected to conduct themselves with respect for other individuals, the organization, and the facility at all times. Students will review Studio Rules and Group Agreements of The Crucible during their first class. We reserve the right to enforce these rules, and anyone in violation will be subject to disciplinary consequences including, but not limited to, immediate dismissal from class without refund.

**Withdrawals**
Each class fee includes a non-refundable registration fee of $50. You may withdraw from a class for any reason up to seven days prior to the start of the class. You will receive a refund minus the $50 registration fee. There is no refund if you withdraw from a class less than seven days before the first class meeting.

**Transfers**
If you wish to transfer, you must first withdraw from the class you are signed up for, adhering to the withdrawal policy above. Any refund or credit due after withdrawal can be applied to enrollment in a different class at The Crucible.

**Missed Classes**
There are no refunds, transfers, make-ups, or deferments for missed classes.

**Returned Checks**
There is a $35 charge for returned checks.

**Getting Here**
We encourage you to carpool or to walk together to BART or your cars. As with any urban environment, be aware of your surroundings when walking.

**General Information**

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Please notify staff of any physical, social, behavioral, or emotional health conditions prior to registering.

**Cancellations**
The Crucible has the right to cancel any class for any reason. If your class is cancelled, we will notify you by phone or email and your tuition fees will be credited or refunded in full.

**Click the policies link in the footer of TheCrucible.org for a list of policies and procedures.**
MEMBERSHIP & SUPPORT

MEMBERSHIP LEVELS

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<th>LEVEL</th>
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<tr>
<td>STUDENT/EDUCATOR</td>
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Become a Member
Join today and enjoy a full year of valuable benefits at an arts education center like no other. Plus, you’ll have the satisfaction of knowing your membership contribution is directly supporting arts education for youth and adults in our community.

All Crucible members receive:
- 10% discount on tuition, additional savings on select courses throughout the year
- Members-only early registration
- Discounts on event tickets
- Exclusive access to CREATE program (page 5)

Deepen Your Commitment
Join the Vulcan Society ($1,000) or above and support us in our work to reduce financial barriers to arts education by providing free and low cost programming.

Ways to Join
ONLINE Visit TheCrucible.org/join/
ONSITE Stop by the reception desk in The Crucible’s administrative office
PHONE Call us at 510-444-0919 x110

Give to The Crucible Fund
Gifts to The Crucible Fund are vital to our ability to inspire students, encourage artists, spark creativity, and ensure arts education remains accessible to everyone. All contributions are fully tax-deductible.

Donate today by visiting
THECRUCIBLE.ORG/JOIN

Purchase a Gift Certificate
Give the unique gift of a Crucible experience to friends and family. Gift certificates are available for any amount and make the perfect present.

Purchase a gift certificate by visiting
THECRUCIBLE.ORG/GIFTCERTIFICATES

Volunteer
Volunteer in our studio, administrative office, or at special events and earn discounts on tuition and membership dues. No experience or special skills are needed.

Volunteer by visiting
THECRUCIBLE.ORG/VOLUNTEER

Make an In-Kind Donation
In-kind donations of tools, bicycles, and materials help us keep our costs down, and help you clear out your garage! Give us a call at 510-444-0919 to see if you have something we could use in our studio or offices.

LEADERSHIP & STAFF

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Emeritus Advisory Board

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The Crucible is deeply grateful to our members, donors, and institutional funders who help us fulfill our mission. We are proud to recognize contributions received between January 2016 and February 2017.

$100,000 and above

Anonymous
Hellman Foundation

$50,000—$99,999

General Atlantic Corporation
Frances Hellman & Warren Breslau
Marsha Roberts & Greg Hansen
The Miner Anderson Family Foundation

$25,000—$49,999

Camille & Christopher Bently
City of Oakland Cultural Funding Program
Yoko Watanabe & Charles Olson
The William and Flora Hewlett Foundation

$10,000—$24,999

11 West Partners, Lauren & Steve Adams,
Arterra Landscape Architects, CASS, Inc., Clorox Company
Foundation Fund, Jeremy Randell, Crescent Porter Hale
Foundation, Judith Hellman, James Madsen, George A. Miller,
Preger Family Charity Fund, Leslie Pritchett, Phillip Tagami,
Renée Ventimiglia, Vita Wells

$5,000—$9,999

Anonymous, AB&I Foundry, Fannie Allen & George Cogan,
Lori & Skip Fogarty, Fred Craves Foundation,
Ann Fisher Hecht & Shawn Hecht, Hellman-Gibbs Family
Philanthropic Fund, Shannon Jackson & Michael Korcska,
Karl and Alice Ruppenthal Foundation for the Arts, Kelly Ann
Brown Foundation, Kelly Family Cuidiú Foundation,
The Sam Mazza Foundation, Sean Orlando & Roger Wu,
Skyhen Fund, Amanda Walker

$2,500—$4,999

Suzette Clarke, Caroline & Manual
Fagundes, Jennifer Lewis & Ken
Lowrey, Julie McCray & Stewart
Bryant, Elizabeth Mumm Meier,
Nettempo, Inc., New Belgium Brewing
Company, O’Keefe Family Foundation,
Nancy Petrisko & Don Beckham,
Laurie Prisbus & Philip Hopkins, Celia
Ramsey & Kent Rasmussen, Anat
Sapan, Schnitzer Steel Industries,
Mrs. Sharon Simpson, Michael Sturtz,
Cairenn & Che Voigt, Carol Wyatt

$500—$999 (continued)

Elaine & Kevin Doran, Roger Falcone,
Suzanne Foster, Cathleen Gellepis,
Glass Alliance of Northern California,
Louise Hassen, Dawn Hawk, Tim
Irvin, Josh Keispel, David C. Miller,
Barbara Murphy, The North Ridge
Foundation, Brenda Ogburn, Kelly
Oliver & Nicholas Fynn, Steven
Pedersen, Eleanor Pries, Jennifer
Raiser, Ted Ray, Katherine Rogers,
Ruth & Bernie Roth, Salesforce.org,
Mayor Libby Schaaf, The Schneider
Foundation, Todd Seabold, Sladden
McElroy Donor-Advised Fund, Bruce
Smith, Mary Sorber & Peter Kropf,
Stancik-Schwartz Family, Tom
Vanderheiden, Eric Uhrenboul, Fred
Winslow, Emily Wu

$250—$499

Kif Augustine Adams, Thomas
Anderson, Lisa & Randy Bickerdike,
Joan & Mitch Bostian, Tanya Brooks,
Katherine Cheung, Julia Davidson,
Monique DeVeane & Brian Driscoil,
Philip Dzielis, Karen Edwards, Ian
Gilmore, Google Inc., Jonathon Gurr,
Kathleen Gwynn & Jon Cosby in honor
of Rusty Howson, Joseph Hansen,
Janice Christensen Heller, Tricia
Hemminger, Robert Kapanen, Crystal
Kinnard, Todd Lane, Laurie Lewis,
Henry Mahon, Ralph McCaskey,
Glenn McCoy, Nion McEvoy,
In Memory of Stephen D. Mickels,
Peter Miller, Ahsan Mir, Robyn
Mutobe, Mecca Billings Nelson,
Oakland Running Festival, One Toyota
of Oakland, Jaime Perkins, PG&E
Corporation, Jackie Lynn Ray, David
Reposar, Nancy Eiele, Charlene & Ben
Rigby, Jeff Schneider, Meg Schrader,
Bruna & Stephen Shidler, Birute
Skurdenis, Beth Souas, Eve Stephens,
Neal Strickberger, Karen Thomas,
& Cameron Hill, Matthew Tiews, CJ
Vohs, Jay Wallace, Peter Washburn,
Terry Westrope, Judy Wilber & Bob
Miller, Bob Wilcox, Alex Zwissler

Crucible programs are supported by the Oakland City Council and by the City of Oakland Cultural Funding Program.
WEEKLONG CLASSES

YOUTH SUMMER CAMPS
June 19 - August 4
Camps give young artists a chance to experiment with different media, try new techniques, and create their own works of art. Camps start on page 31.

ADULT IMMERSION WORKSHOPS
August 28 - September 1
Treat yourself to an exciting week of creative exploration with a deep-dive into glass blowing, flameworking, or welding. See page 9.