VOL. 1 2016
Session Runs: Jan 4—Mar 21
Registration Begins:
Members: Oct 30
Public: Nov 6
Sign up by Nov 20:
SAVE 5%!

INCLUDES
Youth Spring Break
and Summer Camps
see page 32
Dear Friends,

There is always something new going on at The Crucible.

Most days we are running as many as a dozen classes in Blacksmithing, Glass Blowing, Welding, or dozens of other disciplines. We might have a community event, like a Bike-Fix-A-Thon, or a school visit from one of our many educational partners like McClymonds High School and Life Academy. Weekdays we often have business groups on site for a different sort of teambuilding program—this month, we’ve welcomed guests from Dropbox, Zynga, Facebook, Double Dutch, and many more.

We recently hosted a panel discussion for 35 dignitaries and visitors from France—exploring the role of maker spaces in communities. Thursdays we’ve been hosting drop-in yoga and biking events, hosted by our friends at New Belgium Brewing Company.

In addition to classes, our space is lively many weekends as we host private and public special events. The Crucible studios have recently been used for a bachelorette party, jewelry and woodworking tools trunk shows, and a wedding. Two of our biggest annual events are coming up soon: our annual holiday art and craft fair, and woodworking tools trunk shows, and a wedding. Two of our biggest annual events are special events. The Crucible studios have recently been used for a bachelorette party, jewelry and woodworking tools trunk shows, and a wedding. Two of our biggest annual events are coming up soon: our annual holiday art and craft fair, **GIFTY**, on December 11–13, and our signature **Hot Couture** event—this time with a Valentine’s Day theme, **Alchemy & Ardor**, scheduled for February 12–13.

The catalog you hold in your hands has details of many of these programs, including classes starting weekly from January through March. There are also details for some **very special week-long adult intensives (pg. 10)**. These programs are always popular and sell out quickly—so check your calendars and make your plans soon.

As a parent of two teenage kids, I know that summer and school break schedules can be complicated. To help with your summer and spring break plans, we’re very pleased to announce our **spring break session** and **summer youth camps** early this year! Dates and details are enclosed, starting on page 32. Please check your calendars, talk to your kids, and reserve your spot in these wonderful programs.

I want to give special thanks to the hundreds of Crucible members, whose support keeps our fires burning. As always, as a gesture of our appreciation, members receive **10% off** on all class tuition. And everyone—members or not—are entitled to an **extra discount of 5%** for registering before November 20th. (Spring break and summer youth programs are not eligible for the early bird discount.)

But that’s not all... as I said, something new is always going on at The Crucible. By the time you receive this, we will have added new classes, scheduled new programs, and much more. To really stay on top of Crucible news, sign up for our e-newsletters and follow us on social media. You can find details for both on our home page, at www.thecrucible.org.

Our fall and winter campaign asks you to challenge yourself: Challenge yourself to do more, be great, create with freedom. How did I take the challenge? Last Fall I dabbled in blacksmithing and welding... this year I’m looking forward to expanding to wood and glass! I look forward to seeing you in the studio soon.

Sincerely,

David C. Miller
Executive Director

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**SAVE UP TO 15% OFF TUITION**
- 10% — Crucible members
- 5% — Early Bird Discount through Nov 20

**REGISTRATION BEGINS**
**FRIDAYS 10 am**
- Oct 30 — Crucible members
- Nov 6 — General public

**ENROLL ONLINE OR CALL NOW**
- theCrucible.org
- 510.444.0919
- info@thecrucible.org

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**YOUTH SPRING BREAK & SUMMER CAMPS**
- Blacksmithing
- Ceramics
- Enameling
- Foundry
- Glass Blowing
- Glass Fusing & Slumping
- Glass Casting
- Glass Flamworking
- Hot Wheels
- Jewelry
- Kinetics & Electronics
- Neon & Light
- Stone Working
- Textiles, Leather & Fine Art
- Welding
- Woodworking

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**ADULT CLASSES**
- Friday Flames
- 3-HourTasters
- Weeklong Workshops
- Immersion Programs
- Blacksmithing
- Ceramics
- Enameling
- Fire & Performance
- Foundry
- Glass Blowing
- Glass Casting
- Glass Flamworking
- Glass Fusing & Slumping
- Hot Wheels
- Jewelry
- Kinetics & Electronics
- Machine Shop
- Moldmaking
- Neon & Light
- Stone Working
- Textiles, Leather & Fine Art
- Welding
- Woodworking
ABOUT Us

Founded in 1999, The Crucible is a nonprofit arts education organization that fosters a collaboration of arts, industry and community. We aim to inspire creative exploration and expression through hands-on arts education and experiences. A hub of innovation built around the industrial arts, The Crucible serves as a catalyst for personal growth and community transformation.

CLASSES
Crucible classes give you training and support to succeed. Most classes feature project-based lessons that allow you to create 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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Fusing, Jewelry, or Leather. What will you discover next (see page 9)?

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

Lab Sessions
Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for five hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support. Labs are exclusively for Crucible members.

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

Friday Flame Classes
End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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 8).

ACCESS
The Crucible provides two special options for continuing access to our studio and tools.

Studio Rentals
Studio Rentals offer students a chance to continue their hands-on practice in areas where they are currently taking or have taken a class.

CREATE Program
Our CREATE program (Crucible Expanded Access to Tools & Equipment) gives members a chance to work in the studio area of their choice during regular studio hours, with access to professional-level equipment that would otherwise be unavailable to most home-based makers (see page 9).

THE STUDIO
Tours
Take a free tour to see what we’re all about! Tours take place every Tuesday night at 6 pm, and every 1st and 3rd Saturday at 3 pm, except during holidays and special events. Call to schedule or for more information.

Open Houses
We love having people visit our place. We roll the caboose out in front and light the arch to welcome visitors to our open houses and other events, where studios are open, sparks are flying, and there are plenty of hands-on opportunities to learn what The Crucible is all about. Admission is nearly always free, and our family-friendly open houses are fun for everyone.

Can’t Miss Events
GIFTY (December 12–13)
Free admission, Noon-6 pm
Dozens of leading East Bay artists, craftspeople and Crucible faculty members will be selling their best hand-made pieces in a holiday celebration of local creative culture. From glass to metal, wood, ceramics, clothing and much more, you’ll find the perfect gifts for the toughest people on your list. Seasonal treats, beverages and holiday entertainers make this an event all ages can enjoy.

HOT COUTURE (February 12–13)
Tickets available at theCrucible.org
The Crucible’s fiery fusion of fashion design and industrial art returns this February! One of our signature events, this multidisciplinary performance, is a collaboration between local Bay Area fashion designers and industrial artists mixing haute couture concepts with fine and industrial arts. Featuring stunning, cutting edge looks, fire effects, and runway walks rivaling Milan, this is the East Bay’s can’t miss fashion and art experience.

Whether it’s a project kickoff, an executive retreat, or a year-end party, 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.

Options

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

In a **2-HOUR MINI-WORKSHOP**, your team gets a taste of one technique, such as welding, blacksmithing or glass flameworking.

In a **3-4 HOUR HALF-DAY WORKSHOP**, your teammates complete a small individual art project or collaborate on a group piece.

In a **6-HOUR FULL-DAY WORKSHOP**, your group can work in multiple areas, such as torch cutting and welding, to create individual or group projects.

In a **6-8 HOUR DESIGN AND BUILD WORKSHOP**, your group collaborates and designs a single large art project using multiple techniques.

Mini-workshops start as low as $800.

Crucible Workshops Include:

- Blacksmithing
- Foundry
- MIG Welding / Plasma Cutting
- TIG Welding
- Oxy-Acetylene Cutting
- Metalsmithing
- Glass Flameworking
- Glass Sand Casting
- Glass Fusing
- Sand-blasted Glass
- Woodworking
- Leatherworking
- Clay Sculpture
- and more

Catering and Photography

The Crucible can provide lunch and snacks for your team or an elegant wine-and-cheese reception following your workshop. You can also book a photographer to capture your day.

More Info

Visit: [TheCrucible.org](http://TheCrucible.org)

Call: 510.444.0919 x125

Email: teambuilding@thecrucible.org

### Catering and Photography

The Crucible can provide lunch and snacks for your team or an elegant wine-and-cheese reception following your workshop. You can also book a photographer to capture your day.

More Info

Visit: [TheCrucible.org](http://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 checkouts are free.

- $375 for 8’ x 16’ shared
- $650 for 16’ x 16’ full studio

### Tool & Equipment Areas Available

- Arc Welding
- Blacksmithing
- Blacksmithing Power Hammers
- Cold Glass Working
- Fabrication Power Tools
- Fabrication Cold Working Tools
- Grinding
- Jewelry
- Enameling
- MIG Welding
- Oxyacetylene
- Plasma Cutter
- Shell Room
- TIG Welding
- Wax Room
- Woodshop
- Woodturning

### Winter 2016 Closures

Dec 24—Jan 1: Christmas Eve through New Year’s Day
Jan 18: Martin Luther King, Jr. Day
Feb 15: President’s Day
SUDHU TEWARI, Bike Program

Sudhu Tewari got involved with The Crucible in 2008. After quitting his corporate technology job to become an artist, finding himself "underemployed and a bit depressed," Tewari began volunteering in the bike shop with the intention of building a bike from scratch. He quickly realized what a massive mess he was making of things but wanted to learn more, so turned to department head Jeremy Cavagnolo, "the world's greatest bike mechanic". He continued tinkering on his own, began volunteering, and then started teaching in the bike and kinetics and electronics departments. He quickly realized, "these are my people!" He's been a member of the Cru ever since.

Sudhu loves “Frankenstein” bikes and working with youth to “bring their wildest ideas to fruition”. Ask him what keeps him here and he’ll tell you, “the people make this place different from any other. The core of people coming through here are doing amazing things. We offer a chance for people to learn and pursue their dreams. All the facilities are wonderful. It’s amazing to blend the creativity and great work of all the disciplines to create one piece.”

Sudhu runs a weekly youth bike mechanic class Earn a Bike and is teaching Bike Frame Modification and Art Bike (pg. 35) classes with engineering students from McClymond’s High School. Also look for him in summer youth camps!

Describe your artistic passion in six words: Awesome, interactive, experimental, kinetic sound sculpture!

Check out more Hot Wheels classes on page 22.

JOHANNA NEADERHOUSE, Woodworking

Johanna Neaderhower first experienced The Crucible during a work/create party where she watched artists creating a large scale project. She continued by, taking classes in Kinetics, Machine Shop, and Flameworlking. Since childhood, Johanna has always had a love for wood saying, “wood as a material is so attractive.” After her first woodshop class, she never looked back at the others. She continued classes and then joined the CREATE program. Neaderhouser became an intern and a studio renter, moved on to volunteering, and eventually quit her corporate job to teach and create full time. She is now the Woodshop Department Chair.

She thinks this space is special mainly because “you have the freedom to fail. And they don’t just give you the freedom, they celebrate failure—you tried it. Usually failure here means you’re one step closer to getting what you want. It’s different from any other environment I’ve worked in.” Johanna is teaching the Woodworking II (pg. 31) among other classes this season. Create with her in the wood shop!!


Check out more Woodworking classes on page 30.
**Friday Flame Classes**

End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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. Try different Friday Flame classes on different Fridays, or bring some friends for a fun evening together.

**1 SESSION**

<table>
<thead>
<tr>
<th>Session</th>
<th>Date</th>
<th>Time</th>
<th>Cost</th>
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<tbody>
<tr>
<td>3-hour Tasters</td>
<td>Friday Flame</td>
<td>6:30–10 pm</td>
<td>$44 per hour</td>
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**Crucible Faculty**

- **Jan 8**
  - Friday 6:30–10 pm
- **Jan 22**
  - Friday 6:30–10 pm
- **Feb 5**
  - Friday 6:30–10 pm
- **Feb 26**
  - Friday 6:30–10 pm
- **Mar 11**
  - Friday 6:30–10 pm

**Glass Fusing**

- **Jan 8**
  - Friday 6:30–10 pm
- **Jan 22**
  - Friday 6:30–10 pm
- **Feb 5**
  - Friday 6:30–10 pm
- **Feb 26**
  - Friday 6:30–10 pm
- **Mar 11**
  - Friday 6:30–10 pm

**New! FRIDAY FLAMES**

**Blacksmithing**

- **Jan 8**
  - Friday 6:30–10 pm 1BLK04B16-A
- **Jan 22**
  - Friday 6:30–10 pm 1BLK04B16-B
- **Feb 5**
  - Friday 6:30–10 pm 1BLK04B16-C
- **Feb 26**
  - Friday 6:30–10 pm 2BLK04B16-D
- **Mar 11**
  - Friday 6:30–10 pm 2BLK04B16-E

**Jewelry**

- **Jan 8**
  - Friday 6:30–10 pm 1JWL04B16-A
- **Jan 22**
  - Friday 6:30–10 pm 1JWL04B16-B
- **Feb 5**
  - Friday 6:30–10 pm 1JWL04B16-C
- **Feb 26**
  - Friday 6:30–10 pm 2JWL04B16-D
- **Mar 11**
  - Friday 6:30–10 pm 2JWL04B16-E

**Leather**

- **Jan 8**
  - Friday 6:30–10 pm 1TEX04B16-A
- **Jan 22**
  - Friday 6:30–10 pm 1TEX04B16-B
- **Feb 5**
  - Friday 6:30–10 pm 1TEX04B16-C
- **Feb 26**
  - Friday 6:30–10 pm 2TEX04B16-D
- **Mar 11**
  - Friday 6:30–10 pm 2TEX04B16-E

**Glass Flameworking**

- **Jan 8**
  - Friday 6:30–10 pm 1GLF04B16-A
- **Jan 22**
  - Friday 6:30–10 pm 1GLF04B16-B
- **Feb 5**
  - Friday 6:30–10 pm 1GLF04B16-C
- **Feb 26**
  - Friday 6:30–10 pm 2GLF04B16-D
- **Mar 11**
  - Friday 6:30–10 pm 2GLF04B16-E

**MIG Welding**

- **Jan 8**
  - Friday 6:30–10 pm 1MIG04B16-A
- **Jan 22**
  - Friday 6:30–10 pm 1MIG04B16-B
- **Feb 5**
  - Friday 6:30–10 pm 1MIG04B16-C
- **Feb 26**
  - Friday 6:30–10 pm 2MIG04B16-D
- **Mar 11**
  - Friday 6:30–10 pm 2MIG04B16-E

**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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next?

**Crucible Faculty**

- **Feb 14**
  - Sunday 10 am–1 pm
  - 2GLK02E16-A
  - 2GLK02F16-B
  - 2GLF02E16-A
  - 2GLF02F16-B
  - 2GLA02F16-A
  - 2GLA02F16-B
  - 2JWL02E16-A
  - 2JWL02F16-B
  - 2TEX02E16-A
  - 2TEX02F16-B
  - 2MIG02E16-A
  - 2MIG02F16-B

**New! FRIDAY FLAMES**

**Blacksmithing**

- **Feb 14**
  - Sunday 10 am–1 pm 2BLK02E16-A
  - 2BLK02F16-B

**Enameling**

- **Feb 14**
  - Sunday 10 am–1 pm 2ENL02E16-A
  - 2ENL02F16-B

**Sand Casting**

- **Feb 14**
  - Sunday 2–5 pm 2FOU02E16-A
  - 2FOU02F16-B

**Glass Ladling**

- **Feb 14**
  - Sunday 2–5 pm 2GLB02E16-A

**Glass Flameworking**

- **Feb 14**
  - Sunday 2–5 pm 2GLF02E16-A
  - 2GLF02F16-B
WEEKLONG WORKSHOPS

2016 Adult Weeklong Workshops

ENTRY-LEVEL

Remember when your childhood reading allowed you to choose your own adventure? Pick Your Own Adventure spring and summer camps for adults are back and you’re in control! 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.

Blacksmithing I

**WEEKLONG WORKSHOP**
Crucible Faculty

Aug 15–19 Mon–Fri 10 am–1 pm 5BLK10P16-A
Aug 15–19 Mon–Fri 2–5 pm 5BLK10M16-B

$(Register BY Nov 20) $397.75 Members $362.25
$(Register AFTER Nov 20) $415.00 Members $380.50

Glass Blowing I

**WEEKLONG WORKSHOP**
Crucible Faculty

Apr 25–29 Mon–Fri 10 am–1 pm 3GLB10K16-A
Aug 15–19 Mon–Fri 10 am–1 pm 5GLB10K16-D
Aug 15–19 Mon–Fri 10 am–1 pm 5GLB10M16-B

$(Register BY Nov 20) $629.75 Members $579.25
$(Register AFTER Nov 20) $655.00 Members $604.50

MIG Welding I

**WEEKLONG WORKSHOP**
Crucible Faculty

Apr 25–29 Mon–Fri 10 am–1 pm 3MIG10K16-A
Aug 15–19 Mon–Fri 10 am–1 pm 5MIG10K16-D
Aug 15–19 Mon–Fri 10 am–1 pm 5MIG10M16-B

$(Register BY Nov 20) $407.75 Members $373.25
$(Register AFTER Nov 20) $425.00 Members $390.50

Woodworking I

**WEEKLONG WORKSHOP**
Crucible Faculty

Aug 22–26 Mon–Fri 10 am–4 pm 3WOD10P15-A
Aug 22–26 Mon–Fri 10 am–4 pm 3WOD10P16-B

$(Register BY Nov 20) $680.00 Members $620.50

2016 Adult Immersion Programs

ENTRY-LEVEL

The Crucible Immersion Workshops are designed to give students beginner level to advanced, an opportunity to do a deep-dive study in a particular curriculum area. Over the course of five days, you’ll learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day is six hours of instruction with four hours of optional open lab time in the evening, with the exception of Friday, which is a full 8-hour lab day. Lunch and dinner is provided. The workshop week concludes with a dinner and artist reception on Friday evening, where artists’ work is on display. Friends and family are welcome to dinner for a fee.

Glass Blowing Immersion Program

**WEEKLONG IMMERSION**
Crucible Faculty

Aug 22–26 Mon–Thurs 10 am–10 pm 5GLB85J16-A
Friday 10 am–6 pm

$(Register BY Nov 20) $1528.75 Members $1436.25
$(Register AFTER Nov 20) $1575.00 Members $1482.50

Flameworking Immersion Program

**WEEKLONG IMMERSION**
Crucible Faculty

Aug 22–26 Mon–Thurs 10 am–10 pm 5GLF85J16-A
Friday 10 am–6 pm

$(Register BY Nov 20) $1228.75 Members $1136.25
$(Register AFTER Nov 20) $1275.00 Members $1182.50

Welding Immersion Program

**WEEKLONG IMMERSION**
Crucible Faculty

Aug 22–26 Mon–Thurs 10 am–10 pm 5MIG85J16-A
Friday 10 am–6 pm

$(Register BY Nov 20) $1228.50 Members $1136.25
$(Register AFTER Nov 20) $1275.00 Members $1182.50
**ADULT CLASSES**

**Blacksmithing**

**Women's Blacksmithing I**

**ENTRY-LEVEL**
Sign up for this class at the same time as Blacksmithing II and receive a $40 discount on Blacksmithing II. This special workshop taught by women just for women is designed to give students the fundamental blacksmithing skills needed to forge steel. You will have a chance to make a small project while practicing basic forging techniques, such as tapering, upsetting, flattening, and twisting. You learn all the same skills and do all the same projects as the regular Blacksmithing I class, just with more girl power.

**WEEND INTENSIVE**
**15 hours from $24 per hour**

Jan 30 & 31 Sat & Sun 10 am-6 pm 1BLK10A16-WA

(Register AFTER Nov 20) $415.00 Members $380.50

**Bladesmithing**

**PREREQUISITES:** Blacksmithing I & II

Sign up for this class at the same time as Blacksmithing II and receive a $40 discount on Blacksmithing II. Focus on the highly specialized forging techniques needed to produce sharp-edged tools of high-carbon steel. We’ll cover blade design, forging techniques for blade steels, and control of steel’s grain structure. You’ll also learn about hardening and tempering methods, steel finishes, and handle construction. Emphasis is placed on the fundamental skills needed to forge a good blade.

**10 SESSIONS**
Crucible Faculty
Jan 4-Mar 1 Mondays 7–10 pm 1BLK32B16-A

(Register AFTER Nov 20) $550.00 Members $507.50

**Handle Making**

**ENTRY-LEVEL**
Get a grip making your own unique metal handle. This class is a taste of blacksmithing where students learn the basic techniques to use a hammer and anvils to craft square metal into a decorative handle. Learn skills in tapping and fast setting to make a pull handle that is ready to install.

**1 SESSION**
Hiroki Fukushima
Jan 16 Saturday 11 am–5:30 pm 1BLK09H16-A

(Register AFTER Nov 20) $313.75 Members $271.25

**Forge Your Own Blacksmithing Tools**

**PREREQUISITES:** Blacksmithing I & II

Sign up for this class at the same time as Blacksmithing II and receive a $40 discount on Forge Your Own Blacksmithing Tools. Learn how to make your own personalized blacksmith tools in this 5-session class. You will make a punch and learn how to use it to punch the eye on a hammerhead. Also learn techniques in double-striking, heat treating, and be introduced to the power hammer. By the end of the class students will complete two essential tools of the trade for your personal use.

**5 SESSIONS**
Crucible Faculty
Feb 17–Mar 16 Wednesdays 7–10 pm 1BLK02A16-A

(Register AFTER Nov 20) $437.25 Members $401.75

**Forge Your Own Blacksmithing Tools**

**PREREQUISITES:** Blacksmithing I & II

Sign up for this class at the same time as Blacksmithing II and receive a $40 discount on Forge Your Own Blacksmithing Tools. Learn how to make your own personalized blacksmith tools in this 5-session class. You will make a punch and learn how to use it to punch the eye on a hammerhead. Also learn techniques in double-striking, heat treating, and be introduced to the power hammer. By the end of the class students will complete two essential tools of the trade for your personal use.

**5 SESSIONS**
Crucible Faculty
Feb 17–Mar 16 Wednesdays 7–10 pm 1BLK02A16-A

(Register AFTER Nov 20) $455.00 Members $419.50

**Friday Flame: Blacksmithing**

**ENTRY-LEVEL**
End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying good company. Enjoy a 2-hour workshop creating a work of art to take home. Sip wine or beer with the group and marvel at your new masterpiece.

**See page 8 for more Friday Flame options.**

**Royal Blacksmithing**

**ENTRY-LEVEL**
Learn the basics of blacksmithing. This class teaches the fundamental skills needed to forge steel and understand blacksmithing tools. We’ll introduce tapering, upsetting, flattening, drawing, and bending of hot steel. Students make small projects, such as spoons, knives, forks, and hooks.

**5 SESSIONS**
15 hours from $24 per hour

Crucible Faculty
Jan 5–Feb 2 Tuesdays 7–10 pm 1BLK10B16-F
Feb 16–Mar 15 Tuesdays 7–10 pm 2BLK10B16-G

**Blacksmithing II**

**PREREQUISITE:** Blacksmithing I

Sign up for this class at the same time as Blacksmithing II and receive a $40 discount on Blacksmithing II. 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’ll gain the skills needed to move on to more advanced classes like Blacksmithing and Techniques in Ornamental Ironwork.

**5 SESSIONS**
Crucible Faculty
Feb 17–Mar 16 Wednesdays 7–10 pm 2BLK10A16-A

(Register AFTER Nov 20) $330.00 Members $303.00

**Power Hammer I**

**PREREQUISITES:** Blacksmithing I & II

Focus on a set of power hammer techniques as we forge a set of basic hammer tools, such as side sets and a round-back flatter. By the time these tools are forged and heat treated, students get closer to mastering the skill set Emphasis placed on the effective and safe operation and maintenance of the hammer.

**5 SESSIONS**
Crucible Faculty
Feb 16–Mar 15 Tuesdays 7–10 pm 2BLK10B16-A

(Register AFTER Nov 20) $330.00 Members $303.00

**Ceramics**

**Ceramics I**

**ENTRY-LEVEL**
Explore the art of china painting. We’ll focus on how to mix powdered china paint with a water based medium, basic brushing technique and layering of the paint. China painting is a traditional technique that is still appreciated for its dimensional images and delicate expression on a porcelain base. During this 5 day workshop you can create your own design on a large porcelain plate.

**8 SESSIONS**
24 hours from $14 per hour

Crucible Faculty
Jan 6–Mar 2 Wednesdays 7–10 pm 1CER10B16-A
Jan 7–Mar 3 Thursdays 7–10 pm 1CER10B16-B
Jan 6–Feb 27 No class Jan 1 or Feb 17

(Register AFTER Nov 20) $375.00 Members $342.00

**Making Multiples: An Introduction to Slip Casting Ceramics**

**ENTRY-LEVEL**
Create ceramic multiples! Whether you’re interested in making multiple vessels or sculptures, this class covers the basic mold-making techniques with plaster. We’ll make simple press molds and multi-piece molds for slip casting, then bring the clay through the traditional ceramic processes of hand-building, firing, and glazing.

**5 SESSIONS**
15 hours from $19 per hour

Crucible Faculty
Feb 16–Mar 15 Tuesdays 7–10 pm 2CE10B16-A

(Register AFTER Nov 20) $336.50 Members $289.50

(Register AFTER Nov 20) $330.00 Members $303.00
Enameling

3-Hour Taster

ENTRY LEVEL
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 new to a craft, have an itch to share? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next? See page 9 for more 3-Hour Taster options.

1 SESSION
Crucible Faculty
Feb 14 Sunday 10 am–1 pm 1ENL30E16-A
Feb 14 Sunday 2–5 pm 1ENL30E16-B

Enameling I
ENTRY LEVEL
Sign up for this class at the same time as more advanced courses in Enameling and receive a $40 discount on the more advanced class. Discover the ancient art of fusing glass to metal. You’ll learn techniques in metal preparation and fabrication for enameling, kiln properties and firing methods, properties of enamel, and dry and wet applications. No previous experience in jewelry making, enameling, or metalworking needed.

WEEKEND INTENSIVE
Crucible Faculty
Jan 9 & 10 Sat & Sun 10 am–5 pm 1ENL10A16-C
Jan 30 & 31 Sat & Sun 10 am–5 pm 1ENL10A16-D

S SESSIONS
Crucible Faculty
Jan 4–Feb 8 Mondays 7–10 pm 1ENL10B16-A
No class Jan 18

Enameling II
ENTRY LEVEL
Take the next step with this continuing course. 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 lots of experimenting, students will produce at least 3 finished pieces. No previous metalworking experience necessary.

WEEKEND INTENSIVE
Crucible Faculty
Feb 22–Mar 8 Mondays 7–10 pm 2ENL11B16-A

A Primer in 3D Enameling
ENTRY LEVEL
Explore the art of three-dimensional metal forms in this introductory one-day workshop. We’ll work with soft copper sheet, mesh, and copper wire. You’ll learn to plan for adding enamels to form and how to fire forms. Sip equipment and some industrial enameling materials and traditional jewelry enamels used. No previous enameling or metalworking knowledge needed.

1 SESSION
Crucible Faculty
Jan 17 Sunday 10 am–4 pm 1ENL00E16-A

Finding Glass
ENTRY LEVEL
Learn to prepare painting enamels and the different ways of working with materials. Painting enamels gives the enamelist a means to achieve fine detail and the immediacy of the hand-drawn line, as well as to simulate delicate watercolor washes. This enameling technique, sometimes known as Limoges, first appeared in medieval Limoges, France, and is practiced most prolifically today in Russia.

WEEKEND INTENSIVE
Crucible Faculty
Mar 12 & 13 Sat & Sun 10 am–5 pm 2ENL30A16-A

Exploring Liquid Enamels
ENTRY LEVEL
Discover the art of liquid enameling. Originally formulated to glaze steel in the mid-19th century, it has been referred to as industrial or porcelain enamels because they are very similar to ceramic glazes. We will use these enamels in conjunction with more standard forms of enameling on copper. They can be painted, splashed, airbrushed, and combined with all sorts of other media to add spontaneity to projects. You will create several test tiles that will be used to create a small wall piece. Although some basic enameling skills would be helpful, no experience is necessary.

1 SESSION
Crucible Faculty
Jan 24 Sunday 10 am–5 pm 1ENL30B16-A

Enameling Lab
ENTRY LEVEL
Limited drop-in spaces available at $35 per session. Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for five hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
Crucible Faculty
Jan 5–Feb 2 Tuesdays 7–10 pm 1LAB26B16-A
Jan 8–Feb 5 Fridays 10 am–1 pm 1LAB36C16-A

Enameling Lab
ENTRY LEVEL
Limited drop-in spaces available at $35 per session. Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for five hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
Crucible Faculty
Jan 5–Feb 2 Tuesdays 7–10 pm 1LAB26B16-A
Jan 8–Feb 5 Fridays 10 am–1 pm 1LAB36C16-A

Enameling Lab
ENTRY LEVEL
Limited drop-in spaces available at $35 per session. Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for five hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
Crucible Faculty
Jan 5–Feb 2 Tuesdays 7–10 pm 1LAB26B16-A
Jan 8–Feb 5 Fridays 10 am–1 pm 1LAB36C16-A
Fire Hula Hoop I
ENTRY-LEVEL

On the last day of class, students will have the opportunity to spin fire. 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’ll hoop with real fire.

<table>
<thead>
<tr>
<th>Session</th>
<th>Duration</th>
<th>Registration After Nov 20</th>
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</thead>
<tbody>
<tr>
<td>10 SECTIONS</td>
<td>15 hours from $12 per hour</td>
<td>$570.00</td>
<td>$524.00</td>
</tr>
<tr>
<td>10 SECTIONS</td>
<td>30 hours from $15 per hour</td>
<td>$825.00</td>
<td>$774.00</td>
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</tbody>
</table>

Bronze Casting: Ceramic Shell Process
ENTRY-LEVEL

There will be an additional price per pound for wax, shell and bronze.

Learn basic wax-working techniques. You will create a wax sculpture and then create ceramic shell molds transforming your original wax piece into bronze or aluminum and explore basic metal finishing. Ceramic shell is a mold material used in the lost wax casting method.

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Fire Eating
ENTRY-LEVEL

Spice up performances and parties with your new skills as a fire-eater! You will 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.

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<tbody>
<tr>
<td>1 SESSION</td>
<td>4 hours from $30 per hour</td>
<td>$59.50</td>
<td>$54.50</td>
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</table>

Juggling
ENTRY-LEVEL

Learn to juggle from one of the top 40 jugglers in the world! Whether you’ve fooled around with some juggling or are a complete beginner, Kyle Johnson will give you the knowledge to be able to be the life of any party. (No fire in class.)

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<tbody>
<tr>
<td>5 SESSIONS</td>
<td>10 hours from $11 per hour</td>
<td>$99.00</td>
<td>$89.00</td>
</tr>
</tbody>
</table>

Bronze Casting in a Week
ENTRY-LEVEL

Size limitations apply and there will be extra cost for bronze.

Learn the joys of working with this incredible material in a fast paced class with guest artist Charles Kraus. Starting with one of the most beautiful materials, a block of foam, you’ll transform it into a positive sculpture and then into a fine bronze sculpture. Using die grinders and simple tools you’ll carve, make a bonded sand mold, cast, de-sprue and patina it giving you your own creation in bronze.

<table>
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<tbody>
<tr>
<td>WEEKLONG</td>
<td>15 hours from $22 per hour</td>
<td>$56.50</td>
<td>$51.50</td>
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</tbody>
</table>

Sand Casting 3-Hour Taster
ENTRY-LEVEL

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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next? See page 9 for more 3-Hour Taster options.

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<tbody>
<tr>
<td>1 SESSION</td>
<td>3 hours from $40 per hour</td>
<td>$59.00</td>
<td>$54.00</td>
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</table>

Foundry II: Ceramic Shell Process

Additional cost for metal, wax and ceramic shell. Move through all the necessary steps to create a ceramic shell. This class is for people with metal casting experience who have completed wax to cast- we can also accommodate 3D printed PLA. Use your skills developed in previous classes to make a bronze or aluminum casting.

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<tbody>
<tr>
<td>5 SESSIONS</td>
<td>15 hours from $20 per hour</td>
<td>$325.00</td>
<td>$290.00</td>
</tr>
</tbody>
</table>

Hearts of Glass
ENTRY-LEVEL

Speak the language of love with glass. In this exciting entry-level workshop we simplify the iconic and complex organ that symbolizes love and life: the heart. In our hot shop, learn basic glass working techniques to blow, shape and mold hot glass to make a work of art in the form of a heart.

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<tr>
<td>1 SESSION</td>
<td>5 hours from $48 per hour</td>
<td>$260.00</td>
<td>$240.00</td>
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</table>

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 color, and shape and sculpt molten glass. Be prepared to work in the heat!

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<tbody>
<tr>
<td>4 SESSIONS</td>
<td>15 hours from $39 per hour</td>
<td>$609.00</td>
<td>$559.00</td>
</tr>
</tbody>
</table>

Glass Blowing Lab
ENTRY-LEVEL

Enrollment in glass blowing 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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next? See page 9 for more 3-Hour Taster options.

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<tr>
<td>5 SESSIONS</td>
<td>15 hours from $70 per hour</td>
<td>$260.00</td>
<td>$240.00</td>
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</table>

Glass Blowing II: Cup Class
ENTRY-LEVEL

PREREQUISITE: GLASS BLOWING I
Build on the skills acquired by learning to make a drinking glass. We’ll explore the design and creation of various forms of practical and impractical drink-wares including, applying color, hot bits for “feet”, handles, and wraps. You are encouraged to bring a sketchbook.

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<tbody>
<tr>
<td>5 SESSIONS</td>
<td>20 hours from $29 per hour</td>
<td>$625.00</td>
<td>$595.00</td>
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</table>

Glass Ladling 3-Hour Taster
ENTRY-LEVEL

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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next? See page 9 for more 3-Hour Taster options.

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<tbody>
<tr>
<td>1 SESSION</td>
<td>3 hours from $37 per hour</td>
<td>$120.50</td>
<td>$110.75</td>
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Foundry I
ENTRY-LEVEL

Explore the basics of foundry work with an overview of the processes, including wax working, ceramic shell, sand mold making, metal casting, and metal finishing. The process results in your own work cast in several metal pieces.

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<tbody>
<tr>
<td>8 SESSIONS</td>
<td>32 hours from $16 per hour</td>
<td>$570.00</td>
<td>$524.00</td>
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</tbody>
</table>
Hot Sculpting I

PREREQUISITE: GLASS BLOWING I & II

Explore the sculptural aspects of molten glass in this five-week class. We’ll focus on color application, hot work, hot torch, and garage use. You will also gain an understanding of technical vocabulary and test the advantages and disadvantages of working with blown or solid glass.

5 SESSIONS

20 hours from $28 per hour

Crucible Faculty

Feb 18–Mar 17

Thursdays

6–10 pm

2GLB18B16-A

Register AFTER Nov 20

$610.75

Members $562.25

$635.00

Members $586.50

Glass Blowing Immersion Program

ENTRY-LEVEL

Includes meal.

The Crucible Immersion Workshops are designed to give students beginner level to advanced, an opportunity to do a deep dive study in a particular curriculum area. Over the course of five days, you’ll learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day is six hours of instruction with four hours of optional open lab time in the evening, with the exception of Friday, which is a full 8-hour lab day. Lunch and dinner is provided. The workshop week concludes with a dinner and artist reception on Friday evening, where artists’ work is on display. Friends and family are welcome to dinner for a fee.

See page 11 for more Adult Immersion Program options.

WEEKLONG IMMERSION

56 hours from $26 per hour

Crucible Faculty

Aug 22–26

Mon–Thurs

10 am–10 pm

5GLB85B16-A

Register AFTER Nov 20

$1528.75

Members $1436.25

$1575.00

Members $1482.50

Glass Casting & Coldworking

One-Day Cold Working Workshop

ENTRY-LEVEL

Join this one-day workshop for an introduction to our glass cold shop, designed to prepare you for the Cold Shop CREATE program assessment. We’re demonstrating safety, proper tooling techniques, and machine maintenance. Using glass blanks, we’ll teach the tools and techniques of sawing, drilling, carving, sandblasting, grinding and polishing, and gluing glass.

5 SESSIONS

20 hours from $25 per hour

Crucible Faculty

Feb 18–Mar 17

Thursdays

6–10 pm

2GLC21H16-A

Register AFTER Nov 20

$419.50

Members $393.00

$450.00

Members $420.00

Glass Cold Working & Engraving

ENTRY-LEVEL

Learn to grind and polish glass in our expanded cold working space. Using glass blanks, experiment with techniques in cutting, drilling, carving, and sandblasting. We’ll introduce lathe working and provide the chance to complete at least two ground and polished objects. Returning students learn advanced techniques.

5 SESSIONS

15 hours from $23 per hour

Crucible Faculty

Jan 7–Feb 4

Thursdays

7–10 pm

1GLC21B16-A

Register AFTER Nov 20

$385.00

Members $357.50

$406.50

Members $379.50

Dry Plaster Casting

ENTRY-LEVEL

Explore techniques for using repurposed window glass to cast everyday objects using dry plaster. You can cast your hand including your wedding ring or use children’s alphabet blocks to spell a message. We encourage students to bring things you want to try to cast – we promise they will not be damaged. The finished product will be ready to hang using the integrated hanging system.

3 SESSIONS

13.5 hours from $23 per hour

Crucible Faculty

Mar 3–19

Saturdays

10 am–2:30 pm

2GLC14E16-A

Register AFTER Nov 20

$255.75

Members $231.25

$260.00

Members $235.00

Glass Beads I

ENTRY-LEVEL

Sign up for this class at the same time as Glass Beads II and receive a $40 discount on Glass Beads II. 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’ll cover a variety of techniques including color pulling and applying, color pattern application, and marble-making.

5 SESSIONS

15 hours from $23 per hour

Crucible Faculty

Jan 3 & 4

Sat & Sun

10 am–6 pm

1GLF10A16-A

Register AFTER Nov 20

$379.75

Members $349.25

$395.00

Members $365.50

Weekend Intensive

25 hours from $27 per hour

Crucible Faculty

Jan 4–8

Mon–Fri

10 am–4 pm

1GLF11P16-WA

Register AFTER Nov 20

$511.25

Members $472.25

$530.00

Members $492.00

Glass Flameworking

ENTRY-LEVEL

Sign up for this class at the same time as Flameworking II and receive a $40 discount on Flameworking II. 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, introducing tools to form and alter surface patterns, and to make strings and tweeters.

3 SESSIONS

15 hours from $23 per hour

Crucible Faculty

April 25–29

Mon–Fri

10 am–1 pm

3GLF10K16-A

Register AFTER Nov 20

$370.25

Members $340.75

$385.00

Members $355.50

Friday Flame: Glass Flameworking

ENTRY-LEVEL

End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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 8 for more Friday Flame options.

1 SESSION

2 hours from $44 per hour

Crucible Faculty

Jan 8

Friday

6:30–10 pm

1GLF9B16-A

Register AFTER Nov 20

$76.25

Members $69.25

$100.00

Members $92.50

“Very fun- could not get enough!”

— Ed R., MIG student, Fall 2015

The Crucible

The Crucible is a 501(c)(3) non-profit organization. For more information, visit thecrucible.org

510.444.0919
Adventures In Soft Glass - Finding Your Inner Monster

**PREREQUISITES:** Glass Beads I or Glass Flameworking I

Extend your glass experience by learning techniques in creating open hollow forms. Monster expert Ralph McCaskey takes you on a journey in soft glass sharing 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. An examination of 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.

**1 SESSION**
- **Crucible Faculty**
- **8 hours from $23 per hour**
  - **Jan 16**
    - Saturday 10 am-6 pm
    - 1GLF27F16-A
    - **(Register BY Nov 20)** $197.00
    - **(Register AFTER Nov 20)** $205.00

Glass Flameworking II

**PREREQUISITE:** Glass Beads I or Glass Flameworking I

Sign up for this class at the same time as Glass Beads I and receive a $40 discount on Glass Beads II.

Improve your making skills! This weekend class explores the many uses of individual techniques, such as dots, lines, twisters, raking, and encasing. We will choose up to four areas of concentration and devote two to three hours to each topic.

**2 SESSIONS**
- **Crucible Faculty**
- **15 hours from $18 per hour**
  - **Mar 5 & 6**
    - Sat & Sun 10 am-6 pm
    - 2GLF31A16-A
    - **(Register BY Nov 20)** $592.25
    - **(Register AFTER Nov 20)** $625.00

Glass Flameworking Lab

**PREREQUISITE:** Glass Beads I or Glass Flameworking I

Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

**5 SESSIONS**
- **20 hours from $5 per hour**
  - **Jan 7-Feb 6**
    - Thursdays 6-10 pm
    - 1LAB17B16-A
  - **Feb 18-Mar 17**
    - Thursdays 6-10 pm
    - 2LAB17B16-B
  - **(Register BY Nov 20)** $181.75
  - **(Register AFTER Nov 20)** $199.00

Advanced Marble Making Techniques

**PREREQUISITE:** Glass Flameworking I

Deepen your knowledge with advanced techniques in color, depth, texture, organic detail, murrine and cane use. You will develop skills creating mysterious vortex marbles, enchanting implosion marbles, and mystical dichroic galaxy marbles.

**2 SESSIONS**
- **15 hours from $24 per hour**
  - **Mar 12 & 13**
    - Sat & Sun 10 am-6 pm
    - 2GLF31A16-A
    - **(Register BY Nov 20)** $930.75
    - **(Register AFTER Nov 20)** $945.00
    - **Members $376.50**

Flameworking Immersion Program

**ENTRY LEVEL**

The Crucible Immersion Workshops are designed to give students beginner level to advanced, an opportunity to do a deep-dive study in a particular curriculum area. Over the course of five days, you'll learn theory, principles, and extensive techniques that will give you the necessary skills to work independently. Each day is six hours of instruction with four hours of optional open lab time in the evening, with the exception of Friday, which is a full 8-hour lab day. Lunch and dinner is provided. The workshop week concludes with a dinner and artist reception on Friday evening, where artists' work is on display. Friends and family are welcome to dinner for a fee.

Learn glass flameworking theory, principles and extensive techniques that will give you the necessary skills to work independently. See page 11 for more Adult Immersion Program options.

**WEKLY IMMERSION**
- **Crucible Faculty**
- **56 hours from $20 per hour**
  - **Aug 22-26**
    - Mon-Thurs 10 am-10 pm
    - Fri 10 am-4 pm
    - 3GLF51F16-A
    - **(Register BY Nov 20)** $1228.75
    - **(Register AFTER Nov 20)** $1275.00
    - **Members $1136.25**

Friday Flame: Glass Fusing

**ENTRY LEVEL**

End the weekwork with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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 8 for more Friday Flame options.

**1 SESSION**
- **2 hours from $44 per hour**
  - **Jan 8**
    - Friday 6:30-10 pm
    - 1GLA04B16-A
  - **Jan 22**
    - Friday 6:30-10 pm
    - 1GLA04B16-B
  - **Feb 5**
    - Friday 6:30-10 pm
    - 1GLA04B16-C
  - **Feb 26**
    - Friday 6:30-10 pm
    - 2GLA04B16-D
  - **Mar 11**
    - Friday 6:30-10 pm
    - 2GLA04B16-E
    - **(Register BY Nov 20)** $96.25
    - **(Register AFTER Nov 20)** $100.00
    - **Members $88.75**
    - **Members $92.50**

Fundamentals of Glass Fusing & Slumping I

**ENTRY LEVEL**

Sign up for this class at the same time as Fundamentals of Glass Fusing & Slumping I and receive a $40 discount on the more advanced class.

Take this two-day workshop as a continuation of Glass Fusing and Slumping I. You'll take the foundational skills learned in the first workshop and expand on ideas using more advanced techniques. Emphasis is on design, behavior of glass under heat, use of ring saw to create more intricate shapes, and understanding of kiln firing processes. Projects include a large plate (10" x 14"), slumping into drop-out ring molds, and “frit-casting” into clay molds.

**2 SESSIONS**
- **10 hours from $24 per hour**
  - **Feb 6 & 7**
    - Sat & Sun 10 am-3 pm
    - 1GLA39A16-A
    - **(Register BY Nov 20)** $251.25
    - **(Register AFTER Nov 20)** $260.00
    - **Members $243.50**

Glass Fusing Lab

**PREREQUISITE:** At least Two Glass Fusing Classes or Consent of Instructor

Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Labs are held for four hours and run for ten weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

**10 SESSIONS**
- **40 hours from $8 per hour**
  - **Jan 5-Mar 15**
    - Tuesdays 6-10 pm
    - 1LAB16B16-A
    - **No class Feb 9**
    - **(Register BY Nov 20)** $393.00
    - **(Register AFTER Nov 20)** $391.00

Glass Fusing & Slumping I

**ENTRY LEVEL**

Enter the world of glass! We'll focus on the techniques of fusing and slumping, which can offer myriad possibilities for creating with color and form. You will learn the basics of glass/heat interaction, glass cutting, fusing, and slumping. The class will cover mold materials as well as firing and annealing procedures. Each week students explore a new process and complete a small project to be kiln-fired.

**5 SESSIONS**
- **15 hours from $22 per hour**
  - **Mar 4-8**
    - Sat & Sun 10 am-3 pm
    - 2GLA04B16-A
    - **(Register BY Nov 20)** $571.75
    - **(Register AFTER Nov 20)** $585.00
    - **Members $525.25**
    - **Members $538.50**

"I can't remember a more fun class!" — Blacksmithing I class, Winter 2015

="There's something about doing the work myself - great feeling!" — Bike mechanics student, Winter 2015
Glass Fusing 3-Hour Taster
ENTRY-LEVEL
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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next?
See page 9 for more 3-Hour Taster options.

Fused Glass Jewelry
PREVIOUS GLASS CUTTING EXPERIENCE RECOMMENDED
Explore the enchanting properties of fused glass to create exquisite jewelry. Techniques include flowing glass into unique color combinations and use of iced, dichroic, and other special glasses for pendants, charms, and earrings.

Glass Fusing & Slumping II
PREREQUISITE: GLASS FUSING AND SLUMPING I
Sign up for this class at the same time as Glass Fusing and Slumping I and receive a $40 discount on the more advanced class. Continue your investigation into slumping and fusing using different materials such as clay, fiber, and firebricks. We'll discuss glass chemistry and more advanced fusing and slumping processes and you'll design and create your own slumping molds.

Jewelry

Metal Clay I
ENTRY-LEVEL
Learn the basics. Using metal clay tools including rollers, texture plates, rubber stamps, files and brushes learn how to form clay for both flat and sculptural designs. We'll cover a lot in this introduction including creating surface textures and enhancements, clay bad design, arrangement, and placement, stone setting, and finishing and polishing. Students will complete three pendant projects.

1 SESSION
Arlene Mornick
Jan 16 Saturday 10 am-4:30 pm 1ACM31H16-A
(REGISTER BY NOV 20) $225.00 Members $219.00
(REGISTER AFTER NOV 20) $230.00 Members $216.00

Metal Clay II: Ring Architecture
PREREQUISITE: METAL CLAY I
Learn ring sizing methods to accommodate clay shrinkage using basic metal clay tools including ring sizers and the ring mandrel. We'll cover ring mandrel for assembly of clay ring, wide and narrow band construction, stone setting, texture techniques, and other decorative elements. Students will also review firing and finishing methods and enhance metal clay skills to create two rings.

1 SESSION
Arlene Mornick
Jan 23 Sunday 10 am-4:30 pm 1ACM31H16-A
(REGISTER BY NOV 20) $215.00 Members $199.00
(REGISTER AFTER NOV 20) $220.00 Members $206.00

Metal Clay III: Hollow Forms
PREREQUISITE: METAL CLAY I, METAL CLAY INTENSIVE: THE BASICS AND BEYOND, OR PREVIOUS METAL CLAY EXPERIENCE
Take the next step with Metal Clay and learn hollow form construction- creating beads and vessels. Students will create a range of projects using both copper and silver metal clay.

2 SESSIONS
Arlene Mornick
Feb 2 & 28 Sat & Sun 10 am-6 pm 2JWL10A16-C
Crucible Faculty
Mar 5 & 6 Sat & Sun 10 am-6 pm 1WHLTOA16-A
(REGISTER BY NOV 20) $389.75 Members $353.75
(REGISTER AFTER NOV 20) $395.00 Members $353.50

Friday Flame: Jewelry
ENTRY-LEVEL
End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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. Then sip cocktails after class with the group and marvel at your new masterpiece. Take the next step with Metal Clay and learn hollow form construction- creating beads and vessels. Students will create a range of projects using both copper and silver metal clay.

2 SESSIONS
Arlene Mornick
Feb 27 & 28 Sat & Sun 10 am-4 pm 2JWL10A16-FC
Crucible Faculty
Mar 11 Friday 6:30–10 pm 2JWL10A16-FC
(REGISTER BY NOV 20) $395.00 Members $353.50
(REGISTER AFTER NOV 20) $400.00 Members $368.00

Jewelry & Metals I
ENTRY-LEVEL
Sign up for this class at the same time as Introduction to Jewelry & Metals II and receive a $40 discount on more advanced class.

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

5 SESSIONS
Arlene Mornick
Feb 5 Friday 6:30–10 pm 1JWL10A16-D
Jan 8 Friday 6:30–10 pm 1JWL10A16-B
Feb 26 Friday 6:30–10 pm 2JWL10A16-D
Mar 11 Friday 6:30–10 pm 2JWL10A16-E
(REGISTER BY NOV 20) $377.75 Members $344.25
(REGISTER AFTER NOV 20) $383.00 Members $359.00

Hot Wheels
Bicycle Mechanic Workshop
ENTRY-LEVEL
Perform a complete tune up on your own bicycle. As you disassemble and reassemble the entire bicycle, you will learn the names of the bicycle components and the tools used in a professional shop. Basic supplies provided. Students will need to supply specialty tires, cables, chains and gears; some items may be available for sale at The Crucible.

1 SESSION
Crucible Faculty
Feb 14 Sunday 10 am-12 pm 2GLA02F16-A
Feb 14 Sunday 2-5 pm 2GLA02F16-B
(REGISTER BY NOV 20) $129.75 Members $119.25
(REGISTER AFTER NOV 20) $135.00 Members $124.50

New!
Metal Clay Intensive II: Hollow Forms
PREVIOUS GLASS CUTTING EXPERIENCE REQUIRED
Explore the enchanting properties of fused glass to create exquisite jewelry. Techniques include flowing glass into unique color combinations and use of iced, dichroic, and other special glasses for pendants, charms, and earrings.

Glass Fusing & Slumping II
PREREQUISITE: GLASS FUSING AND SLUMPING I
Sign up for this class at the same time as Glass Fusing and Slumping I and receive a $40 discount on the more advanced class. Continue your investigation into slumping and fusing using different materials such as clay, fiber, and firebricks. We'll discuss glass chemistry and more advanced fusing and slumping processes and you'll design and create your own slumping molds.

5 SESSIONS
Crucible Faculty
Feb 17-Mar 16 Wednesdays 6:30-9:30 pm 2G1A18B16-A
(REGISTER BY NOV 20) $338.50 Members $315.00
(REGISTER AFTER NOV 20) $350.00 Members $327.00

“Excellent class in every way. First rate equipment and facilities, but none of it would have mattered without our first rate instructor! He’s a natural born teacher- very clear and understanding.”
— Jeff W., MIG student, Fall 2015

theCrucible.org      510.444.0919  |
Jewelry 3-Hour Taster
ENTRY LEVEL
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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making: Try Blacksmithing, Enameling, Sand Casting, Glass Laying, Glass Flameworking, Glass Fusion, Jewelry, Leather, or Mig Welding. What will you discover next?
See page 9 for more 3-Hour Taster options.

1 SESSION
Crucible Faculty
Feb 14
Sunday
10 am–1 pm 2JWL02E16-A
(REGISTER BY NOV 20) $129.75 Members $119.25
(REGISTER AFTER NOV 20) $135.00 Members $124.50

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.

1 SESSION
Baird Helffrich
Jan 31
Sunday
11 am–4 pm 2JWL18E16-A
(REGISTER BY NOV 20) $100.75 Members $92.25
(REGISTER AFTER NOV 20) $105.00 Members $96.50

Jewelry & Metals II
PREREQUISITE: INTRODUCTION TO JEWELRY & METALS I.
Sign up for this class at the same time as Introduction to Jewelry & Metals I and receive a $40 discount on the more advanced class. Further develop your basic metalworking. We’ll 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.

2 SESSIONS
Crucible Faculty
Mar 12 & 13
Sat & Sun
10 am–6 pm 2JWL31A16-A
(REGISTER BY NOV 20) $231.75 Members $225.25
(REGISTER AFTER NOV 20) $235.00 Members $228.50

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’ll 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.

5 SESSIONS
Crucible Faculty
Jan 6–Feb 3
Wednesdays 6:30–9:30 pm 1KIN10B16-A
(REGISTER BY NOV 20) $212.75 Members $205.75
(REGISTER AFTER NOV 20) $215.00 Members $208.50

Arduino Microcontrollers: Building Smart Art
ENTRY LEVEL
A laptop computer is required. Students take home all components that are part of their final project. Give new meaning to intelligent design. 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 features. Plenty of hands-on lab time deepens your understanding and enables you to create interactions of your own. A laptop computer is required - loans may be available. Arduino board and accessories provided.

5 SESSIONS
Crucible Faculty
Feb 16–Mar 15
Tuesdays 6:30–9:30 pm 2JWL18B16-A
(REGISTER BY NOV 20) $341.75 Members $331.75
(REGISTER AFTER NOV 20) $350.00 Members $340.00

Commercial Moldmaking
PREREQUISITE: MOLDMAKING I: PLASTER
Molds can also be stored for later use in other classes that involve the use of molding materials. A sound knowledge of moldmaking techniques is essential to the successful production of high-quality molds. Both cast and injection molding are examined.

2 SESSIONS
Crucible Faculty
Feb 22–Mar 21
Mondays 6:30–9:30 pm 2JWL31B16-A
(REGISTER BY NOV 20) $350.00 Members $337.25
(REGISTER AFTER NOV 20) $360.00 Members $347.50

“Class was inspirational, educational, and fun—thank you!”
— Nancy A., Metal Sculpture student, Fall 2015

“Class was inspirational, educational, and fun—thank you!”
— Nancy A., Metal Sculpture student, Fall 2015

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’ll 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.

5 SESSIONS
Crucible Faculty
Jan 6–Feb 3
Wednesdays 6:30–9:30 pm 1KIN10B16-A
(REGISTER BY NOV 20) $212.75 Members $205.75
(REGISTER AFTER NOV 20) $215.00 Members $208.50

Machine Shop Lab
PREREQUISITE: THE MOTHER MACHINES
Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for four hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
Crucible Faculty
Feb 16–Mar 15
Tuesdays 6:30–9:30 pm 2JWL18B16-A
(REGISTER BY NOV 20) $238.25 Members $231.75
(REGISTER AFTER NOV 20) $250.00 Members $242.50

Moldmaking
PREREQUISITE: MOLDMAKING I: PLASTER
Molds are also available for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for four hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
Crucible Faculty
Jan 7–Feb 4
Thursdays 6:30–9:30 pm 1KIN10B16-A
(REGISTER BY NOV 20) $307.25 Members $291.75
(REGISTER AFTER NOV 20) $320.00 Members $294.50

The Mother Machines: Turning & Milling
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. Also 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
Ken Gilliland
Jan 5–Mar 15
Tuesdays 7–10 pm 1MAC10B16-A
(REGISTER BY NOV 20) $575.00 Members $530.50
(REGISTER AFTER NOV 20) $592.50 Members $548.50

3D Printing
ENTRY LEVEL
This course introduces you to 3D printing technology, starting from the basics of what a 3D printer is and how it works, to the software, file preparation, and post-processing needed to have a working part. You will learn both the process of printing a part from the design files and the building of the machine part by part. This course is perfect for beginners who are interested in learning the basics of 3D printing but don’t have access to a 3D printer. The course is taught as an online course with live Zoom sessions during the set time.

5 SESSIONS
Crucible Faculty
Feb 16–Mar 15
Tuesdays 6:30–9:30 pm 2JWL18B16-A
(REGISTER BY NOV 20) $312.75 Members $305.75
(REGISTER AFTER NOV 20) $320.00 Members $313.50

Moldmaking and Casting with Plastic
ENTRY LEVEL
Learn to make silicone molds - the kind of mold used by model makers, foundries, sculptors, and other professionals. The molds are suitable for casting other materials including concrete, wax, resin, and silicone. Molds can also be stored for later use in other classes that use wax castings. Personal projects are welcome, but there will be a limit to project size.

5 SESSIONS
Crucible Faculty
Feb 22–Mar 21
Mondays 6:30–9:30 pm 2JWL18B16-A
(REGISTER BY NOV 20) $337.25 Members $321.75
(REGISTER AFTER NOV 20) $350.00 Members $334.50

Moldmaking II: Silicone Rubber
ATTENDING MOLDMAKING I IS ENCOURAGED, ALTHOUGH NOT MANDATORY
Learn to make silicone molds - the kind of mold used by model makers, foundries, sculptors, and other professionals. The molds are suitable for casting other materials including concrete, wax, resin, and silicone. Molds can also be stored for later use in other classes that use wax castings. Personal projects are welcome, but there will be a limit to project size.

5 SESSIONS
Crucible Faculty
Feb 18–Mar 17
Thursdays 6:30–9:30 pm 2JWL18B16-A
(REGISTER BY NOV 20) $377.75 Members $361.75
(REGISTER AFTER NOV 20) $390.00 Members $374.50

Machine Shop
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.

1 SESSION
Baird Helffrich
Jan 31
Sunday
11 am–4 pm 2JWL18E16-A
(REGISTER BY NOV 20) $100.75 Members $92.25
(REGISTER AFTER NOV 20) $105.00 Members $96.50

Three-Dimensional Metalmashing
PREREQUISITE: INTRODUCTION TO JEWELRY & METALS I
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, allowing you to create three-dimensional multiples and hollow forms for use in jewelry, boxes, and lockets.

5 SESSIONS
Crucible Faculty
Feb 16–Mar 15
Tuesdays 7–10 pm 2JWL31A16-A
(REGISTER BY NOV 20) $317.00 Members $291.00
(REGISTER AFTER NOV 20) $330.00 Members $304.00
Neon I
ENTRY LEVEL
Sign up at the same time with Neon II and get a $40 discount on the more advanced class.

Light up your life and art with neon! In this class you’ll 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 provided.

5 SESSIONS
15 hours from $26 per hour
Christian Schies & Norman Moore
Jan 9-Feb 6 Saturdays 10 am-1 pm 1NEL10F16-A
Feb 20-Mar 19 Saturdays 10 am-1 pm 2NEL10F16-B
(REGISTER BY NOV 20) $48.00 Members $44.00
(REGISTER AFTER NOV 20) $44.00 Members $40.00

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 complete kit of LEDs and parts to use in class and for future projects.

1 SESSION
7 hours from $29 per hour
Henry Boyle
Feb 7 Sunday 10 am-5 pm 1NEL19E16-A
(REGISTER BY NOV 20) $220.25 Members $200.75
(REGISTER AFTER NOV 20) $230.00 Members $210.50

Textiles, Leather & Fine Art

Neon & Light

Neon Lab
AT LEAST ONE CLASS, OR CONSENT OF INSTRUCTOR
Labs are exclusively for Crucible members. Practice and perfect the skills you learn in class. Push the boundaries and explore new possibilities with your craft. Lab sessions are held for three hours and run for five weeks. Lab time is supervised but does not include instruction or materials. You are free to come and go at your convenience during open lab hours. Labs are typically non-instructional, but a lab monitor will be present to answer questions, manage safety, and provide overall support.

5 SESSIONS
15 hours from $10 per hour
Dan Caven
Jan 10-Feb 7 Sundays 2-5 pm 1LAB20F16-A
Feb 21-Mar 20 Sundays 2-5 pm 2LAB20F16-B
(REGISTER BY NOV 20) $157.75 Members $143.25
(REGISTER AFTER NOV 20) $165.00 Members $150.50

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 very much like neon. This one-day workshop introduces the technology and craft of soldering and working with EL-wire. You’ll 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 $49 per hour
Steve Brown
Feb 27 Saturday 12-4 pm 2NEL02F16-A
(REGISTER BY NOV 20) $212.25 Members $196.75
(REGISTER AFTER NOV 20) $220.00 Members $204.50

Stone Carving
ENTRY LEVEL
Note: There will be an additional charge for stones
Learn stone carving from a seasoned pro in this introduction to working with alabaster. Through demonstrations and hands-on work, you will gain an overview of stoneworking. We’ll start with traditional hand-carving techniques and get an introduction to pneumatic tools.

5 SESSIONS
15 hours from $16 per hour
Henry Boyle
Jan 5-Feb 2 Tuesdays 7-10 pm 1TEX02F16-A
(REGISTER BY NOV 20) $68.75 Members $64.25
(REGISTER AFTER NOV 20) $70.00 Members $65.50

Drawing for the Absolute Beginner
ENTRY LEVEL
Ease into the world of drawing with step-by-step instructions and simple exercises to become familiar with different drawing materials and techniques. Through a series of studio projects, you will learn basic concepts and gain the ability to express yourself as you further develop your skills and confidence.

5 SESSIONS
15 hours from $13 per hour
Henry Boyle
Jan 6-Mar 16 Wednesdays 7-10 pm 1STN10B16-A
(REGISTER BY NOV 20) $344.75 Members $310.25
(REGISTER AFTER NOV 20) $360.00 Members $325.50

Cartoneria (Mexican Paper Sculpture)
ENTRY LEVEL
Learn the ancient and popular art form of Mexican paper mache. 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 myological beasts and characters as a starting point.

5 SESSIONS
15 hours from $21 per hour
Henry Boyle
Jan 6-Feb 3 Wednesdays 7-10 pm 1TEX29B16-A
(REGISTER BY NOV 20) $345.75 Members $317.25
(REGISTER AFTER NOV 20) $360.00 Members $331.50

Leather 3-Hour Taster
ENTRY LEVEL
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 new to a craft, have an itch to try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Flameworking, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next? See page 9 for more 3-Hour Taster options.

1 SESSION
3 hours from $40 per hour
Henry Boyle
Feb 14 Sunday 10 am-1 pm 1TEX02E16-A
(REGISTER BY NOV 20) $129.75 Members $119.25
(REGISTER AFTER NOV 20) $135.00 Members $124.50

Sewing I: A Crash Course
ENTRY LEVEL
Please bring your own sewing machine.
Become better acquainted with your sewing machine. This four-hour workshop for beginners focuses on sewing machine parts, operation, troubleshooting, and various sewing tools. Students learn foolproof methods for sewing a straight seam and turning corners. We’ll also explore fabric types and their uses.

1 SESSION
4 hours from $25 per hour
Henry Boyle
Mar 1 Tuesday 6-10 pm 1TEX18B16-A
(REGISTER BY NOV 20) $106.25 Members $96.75
(REGISTER AFTER NOV 20) $110.00 Members $102.50

Note: There will be an additional charge for stones

“Excellent class- learned more than I expected. Great facility- I will take more classes and tell others about The Crucible!”
— Mel C. Welded Sculpture student, Fall 2015

Friday Flame: Leather
ENTRY LEVEL
End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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 8 for more Friday Flame options.

1 SESSION
2 hours from $44 per hour
Crucible Faculty
Jan 8 Friday 6:30-10 pm 1TEX04B16-A
Jan 22 Friday 6:30-10 pm 1TEX04B16-B
Feb 5 Friday 6:30-10 pm 1TEX04B16-C
Feb 26 Friday 6:30-10 pm 2TEX04B16-D
Mar 11 Friday 6:30-10 pm 2TEX04B16-E
(REGISTER BY NOV 20) $76.25 Members $68.75
(REGISTER AFTER NOV 20) $80.00 Members $72.50

Leather Working I
ENTRY LEVEL
Learn techniques for working with leather, including cutting, edging, stitching, dyeing andaling. Setting rivets, and adding hardware like buckles will also be covered as well is design and safety issues. Each student will make a belt and at least one bag.

WEEKEND INTENSIVE
15 hours from $21 per hour
Crucible Faculty
Jan 23 & 24 Sat & Sun 10 am-6 pm 1TEX16A16-A
(REGISTER BY NOV 20) $345.75 Members $317.25
(REGISTER AFTER NOV 20) $360.00 Members $331.50

Bookbinding I
ENTRY LEVEL
Learn the art of bookbinding to create beautiful personal books that can be used to capture memories, ideas, drawings, and more. This class offers discussion and instruction on the foundation of bookbinding technique, history, and materials. You’ll construct block books, practice stitching techniques, and design covers that express your creative voice. Traditional and contemporary tools will be used to construct several types of books.

2 SESSIONS
15 hours from $22 per hour
Crucible Faculty
Feb 6 & 7 Sat & Sun 10 am-6 pm 1TEX16A16-A
(REGISTER BY NOV 20) $357.00 Members $331.00
(REGISTER AFTER NOV 20) $370.00 Members $344.00
**Welding**

**Exploring Welding**

**ENTRY-LEVEL**

Phone in and sign up for any welding class the week after completing this class and receive a $40 discount on that welding class.

Can’t decide what type of welding to take? Explore the varied possibilities of welding. We’ll focus on four types of welding taught at The Crucible: oxy/acetylene, stick, metal inert gas (MIG), and tungsten inert gas (TIG), and give students the chance to try all. This class will help guide you to the type of welding most appropriate for the projects you want to complete.

**2 SESSIONS**

- **8 hours from $25 per hour**
  - **Crucible Faculty**
    - Jan 23 & 24
      - Sat & Sun: 1–5 pm
      - 1WL03F16-A
      - (Register BY Nov 20) $216.25 Members $198.75
      - (Register AFTER Nov 20) $225.00 Members $207.50
    - Feb 27 & 28
      - Sat & Sun: 1–5 pm
      - 2WL03F16-A
      - (Register BY Nov 20) $216.25 Members $198.75
      - (Register AFTER Nov 20) $225.00 Members $207.50

**Wood + Metal**

**ENTRY-LEVEL**

Learn the fundamental properties of these two titanates of materials. During this class, you’ll create a custom piece of furniture that incorporates both materials and highlights the ways each complements the other. Come to the first class with ideas and measurements for a small piece of custom wood and metal furniture. Past projects include coffee tables, bookshelves, and small desks.

**10 SESSIONS**

- **30 hours from $19 per hour**
  - **Crucible Faculty**
    - Jan 4–Mar 15
      - Mon–Tues: 10 am–1 pm
      - 1MIG20B16-A
      - (Register BY Nov 20) $420.00 Members $390.00
      - (Register AFTER Nov 20) $460.00 Members $420.00

**MIG Welding I**

**ENTRY-LEVEL**

Learn the fundamentals of MIG (metal inert gas) welding and plasma torch cutting. We’ll focus on making an electricity “arc” through the air to the steel creating enough heat to melt it and the steel wire you are adding to it, effectively creating a weld. You will learn how to use this process to run beads, tack weld and create joints. In addition you will be introduced to the plasma torch, which allows you to use electricity to transform atmospheric gas into plasma. Students complete a small project.

**5 SESSIONS**

- **15 hours from $25 per hour**
  - **Crucible Faculty**
    - Jan 5–Feb 2
      - Tuesdays: 7–10 pm
      - 1ARC10B16-E
      - (Register BY Nov 20) $393.25 Members $359.75
      - (Register AFTER Nov 20) $410.00 Members $376.50
    - Jan 17–Mar 16
      - Wednesdays: 7–10 pm
      - 2ARC10B16-D
      - (Register BY Nov 20) $393.25 Members $359.75
      - (Register AFTER Nov 20) $410.00 Members $376.50

**TIG Welding I**

**ENTRY-LEVEL**

Sign up for this class at the same time as TIG II and receive a $40 discount on TIG II. 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 complete a small project by the end of the class.

**5 SESSIONS**

- **15 hours from $25 per hour**
  - **Crucible Faculty**
    - Jan 5–Feb 2
      - Tuesdays: 7–10 pm
      - 1TIG10B16-A
      - (Register BY Nov 20) $407.75 Members $373.25
      - (Register AFTER Nov 20) $425.00 Members $390.50
    - Jan 7–Feb 4
      - Thursdays: 7–10 pm
      - 2TIG10B16-F
      - (Register BY Nov 20) $407.75 Members $373.25
      - (Register AFTER Nov 20) $425.00 Members $390.50

**Welded Sculpture I**

**ENTRY-LEVEL**

Sign up for this class at the same time as Continuing Techniques in Welded Sculpture and receive a $40 discount on Continuing Techniques. Learn to join pieces of metal using arc welding, also known as stick welding. Instructors teach you to slice through metal with the hot flame of an oxy/acetylene torch and to use power and hand tools to finish your work. You’ll make a small sculpture to take home.

**5 SESSIONS**

- **15 hours from $24 per hour**
  - **Crucible Faculty**
    - Jan 5–Mar 2
      - Wednesdays: 7–10 pm
      - 1ARC10B16-E
      - (Register BY Nov 20) $393.25 Members $359.75
      - (Register AFTER Nov 20) $410.00 Members $376.50

**Oxyacetylene Welding**

**ENTRY-LEVEL**

Learn to weld using a torch that burns a mixture of oxygen and acetylene gases. You’ll 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 oxyacetylene cutting, and introduces how to join metals by brazing.

**2 SESSIONS**

- **15 hours from $24 per hour**
  - **Crucible Faculty**
    - Feb 6 & 7
      - Sat & Sun: 10 am–6 pm
      - 1ARC10B16-A
      - (Register BY Nov 20) $398.25 Members $364.75
      - (Register AFTER Nov 20) $415.00 Members $381.50
    - Mar 19 & 20
      - Sat & Sun: 10 am–6 pm
      - 2ARC10B16-A
      - (Register BY Nov 20) $398.25 Members $364.75
      - (Register AFTER Nov 20) $415.00 Members $381.50

**Women’s MIG Welding**

**ENTRY LEVEL**

Sign up for this class at the same time as Welded Sculpture I or Women’s Welding and receive a $40 discount on Continuing Techniques.

Ladies, learn welding taught by women, for women. This class covers all the same material as Welded Sculpture I but in an all female environment. No prior experience needed.

**5 SESSIONS**

- **15 hours from $25 per hour**
  - **Crucible Faculty**
    - Jan 6–Mar 15
      - Tuesdays: 7–10 pm
      - 1ARC10A16-A
      - (Register BY Nov 20) $407.75 Members $373.25
      - (Register AFTER Nov 20) $425.00 Members $390.50
    - Feb 27 & 28
      - Tuesdays: 7–10 pm
      - 2ARC10A16-A
      - (Register BY Nov 20) $407.75 Members $373.25
      - (Register AFTER Nov 20) $425.00 Members $390.50

**Welded Sculpture II: Continuing Techniques**

**ENTRY LEVEL**

Learn the fundamentals of MIG (metal inert gas) welding and plasma torch cutting. We’ll focus on making an electricity “arc” through the air to the steel creating enough heat to melt it and the steel wire you are adding to it, effectively creating a weld. You will learn how to use this process to run beads, tack weld and create joints. In addition you will be introduced to the plasma torch, which allows you to use electricity to transform atmospheric gas into plasma. Students complete a small project.

**2 SESSIONS**

- **15 hours from $22 per hour**
  - **Crucible Faculty**
    - Mar 19 & 20
      - 10 am–6 pm
      - 2ARC13A16-A
      - (Register BY Nov 20) $364.75 Members $334.25
      - (Register AFTER Nov 20) $380.00 Members $349.50

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**Friday Flame: MIG Welding**

**ENTRY-LEVEL**

End the workweek with flames, friends, and a toast. Join us for Friday Flame, a unique night out creating industrial art and enjoying 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 8 for more Friday Flame options.

**5 SESSIONS**

- **15 hours from $21 per hour**
  - **Crucible Faculty**
    - Feb 17–Mar 16
      - Wednesdays: 7–10 pm
      - 2ED31B16-A
      - (Register BY Nov 20) $345.75 Members $317.25
      - (Register AFTER Nov 20) $360.00 Members $331.50

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

**ENTRY LEVEL**

Learn the fundamentals of MIG (metal inert gas) welding and plasma torch cutting. We’ll focus on making an electricity “arc” through the air to the steel creating enough heat to melt it and the steel wire you are adding to it, effectively creating a weld. You will learn how to use this process to run beads, tack weld and create joints. In addition you will be introduced to the plasma torch, which allows you to use electricity to transform atmospheric gas into plasma. Students complete a small project.

**5 SESSIONS**

- **15 hours from $25 per hour**
  - **Crucible Faculty**
    - Jan 5–Mar 16
      - Thursdays: 7–10 pm
      - 1TIG10B16-D
      - (Register BY Nov 20) $407.75 Members $373.25
      - (Register AFTER Nov 20) $425.00 Members $390.50

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**Leather Working II**

**ENTRY LEVEL**

Apply and build upon basic leather working techniques to create a unique leather bag, or alternative project of your own choosing. From choosing materials to developing a pattern for your design, you will be challenged to problem-solve all steps of the creation process. More advanced leatherworking techniques such as channeling, installing zippers, making and attaching handles, as well as an introduction to the tannin process, will be covered in this class.

**30 hours from $18 per hour**

---

**Register AFTER Nov 20**

- $360.00 Members $331.50
**MIG Welding 3-Hour Taster**

**ENTRY-LEVEL**

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 new to a craft, have an itch to just try something new without too much commitment? Take a class with a friend or make new friends while making. Try Blacksmithing, Enameling, Sand Casting, Glass Ladling, Glass Fusing, Jewelry, Leather, or MIG Welding. What will you discover next?

See page 9 for more 3-Hour Taster options.

<table>
<thead>
<tr>
<th>1 SESSION</th>
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<tbody>
<tr>
<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Feb 14</td>
<td>Sunday</td>
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<tr>
<td>10 am–1 pm</td>
<td>2MIG02E16-A</td>
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<tr>
<td>Feb 14</td>
<td>Sunday</td>
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<tr>
<td>2-5 pm</td>
<td>2MIG02P16-A</td>
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<tr>
<td>(Register BY Nov 20)</td>
<td>$129.75</td>
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<tr>
<td>(Register AFTER Nov 20)</td>
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**TIG Welding II**

**PREREQUISITE: TIG WELDING!**

Sign up for this class at the same time as TIG I and receive a $40 discount on TIG II.

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 we will develop a series of fundamental welding techniques. Students will complete a project by the end of the class.

<table>
<thead>
<tr>
<th>5 SESSIONS</th>
<th>15 hours from $24 per hour</th>
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<tbody>
<tr>
<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Feb 18-Mar 7</td>
<td>Thursdays</td>
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<tr>
<td>7–10 pm</td>
<td>2TIG13B16-A</td>
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<tr>
<td>(Register BY Nov 20)</td>
<td>$399.25</td>
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<td>(Register AFTER Nov 20)</td>
<td>$415.00</td>
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</table>

**Welding Immersion Program**

**ENTRY-LEVEL**

Includes meal.

The Crucible Immersion Workshops are designed to give students hands-level, practical training, an opportunity to do a deep dive in a specific discipline within a full 8-hour lab day. Lunch and dinner is provided.

The workshop concludes with a dinner and artist reception on Friday evening, where artists’ work is on display. Friends and family are welcome to dinner for a reception on Friday evening, where artists’ work is on display.

Learn to join and cut metal to create a series of custom projects using an electrode striking arc of electricity more than 3000 degrees. You’ll learn to join and cut metal using tools like a MIG welder and plasma cutter. We’ll also cover fabrication shop tools like the horizontal band saw, shearer, notcher, drill press, hydraulic pipe bender, hole punch, pipe roller, sheet roller, and the finger brake. Learn more techniques now that you’re already comfortable in the workshop. Explore advanced woodworking methods as you apply newly learned skills to furniture making and other projects. You’ll use hand-cut dovetails or a variety of machine-cut joinery, and learn about the use of jig and fixtures to speed up your workflow. Students provide their own materials.

<table>
<thead>
<tr>
<th>10 SESSIONS</th>
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<tbody>
<tr>
<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Jan 6–Mar 16</td>
<td>Wednesdays</td>
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<tr>
<td>9:30 am–3 pm</td>
<td>1WOD16A16-A</td>
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<tr>
<td>No class Feb 10</td>
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<tr>
<td>(Register BY Nov 20)</td>
<td>$537.75</td>
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<tr>
<td>(Register AFTER Nov 20)</td>
<td>$565.00</td>
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**Woodworking**

**ENTRY-LEVEL**

Learn how to use power tools, and traditional and modern hand tools safely and effectively. Class assignments introduce basic concepts and techniques, to give you the necessary skills to work independently. Each day is six hours of instruction with four hours of optional open lab time in the evening, with the exception of Friday, which is a full 8-hour lab day. Lunch and dinner is provided.

Learn to design, make, and finish your own unique wood box. You don’t need a fully equipped shop or decades of experience to enjoy woodworking! With an emphasis on tool safety and material exploration, we’ll use a combination of power tools and hand tools to make simple and individualized boxes of all shapes and sizes.

Beginning with a solid block of wood, you’ll learn how to layout, cut, sculpt, and assemble the block into the form of a box. Demonstrated techniques include hidden hinges, small drawers, pull knobs, and fitted lids, as well as texturing, carving, burning, painting, and finishing. This course is suitable for beginners as well as intermediate students. All materials are provided.

<table>
<thead>
<tr>
<th>2 SESSIONS</th>
<th>12 hours from $22 per hour</th>
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<tbody>
<tr>
<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Jan 30 &amp; 31</td>
<td>Sat &amp; Sun</td>
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<tr>
<td>10 am-4 pm</td>
<td>1WOD16A16-A</td>
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<tr>
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<td>$286.50</td>
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<td>(Register AFTER Nov 20)</td>
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**Spoon Carving By Hand**

**ENTRY-LEVEL**

Learn basic principles of working with wood while making your own unique carved wooden spoon. Topics covered include different types of wood, grain direction, carving, shaping, and food safe finishes. Through short demonstrations and lectures, we’ll use a combination of power and hand tools, exploring the material for its functionality as well as a creative outlet. At the end of the workshop, students leave with a unique spoon ready to use! All materials included.

<table>
<thead>
<tr>
<th>2 SESSIONS</th>
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<tr>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Jan 30 &amp; 31</td>
<td>Sat &amp; Sun</td>
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<tr>
<td>10 am-4 pm</td>
<td>1WOD16A16-A</td>
</tr>
<tr>
<td>(Register BY Nov 20)</td>
<td>$537.75</td>
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<tr>
<td>(Register AFTER Nov 20)</td>
<td>$565.00</td>
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</table>

**Woodturning II: Continuing Techniques**

**PREVIOUS EXPERIENCE REQUIRED**

Prerequisite: Woodturning I. No materials provided. Students must provide their own materials.

**Woodturning I**

**ENTRY-LEVEL**

Learn how to use power tools, and traditional and modern hand tools safely and effectively. Class assignments introduce basic concepts and techniques, to give you the necessary skills to work independently. Each day is six hours of instruction with four hours of optional open lab time in the evening, with the exception of Friday, which is a full 8-hour lab day. Lunch and dinner is provided.

Learn to design, make, and finish your own unique wood box. You don’t need a fully equipped shop or decades of experience to enjoy woodworking! With an emphasis on tool safety and material exploration, we’ll use a combination of power tools and hand tools to make simple and individualized boxes of all shapes and sizes.

Beginning with a solid block of wood, you’ll learn how to layout, cut, sculpt, and assemble the block into the form of a box. Demonstrated techniques include hidden hinges, small drawers, pull knobs, and fitted lids, as well as texturing, carving, burning, painting, and finishing. This course is suitable for beginners as well as intermediate students. All materials are provided.

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<th>2 SESSIONS</th>
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<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Mar 12 &amp; 13</td>
<td>Sat &amp; Sun</td>
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<tr>
<td>11 am-5 pm</td>
<td>2WOD33A16-A</td>
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<td>(Register BY Nov 20)</td>
<td>$330.25</td>
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<tr>
<td>(Register AFTER Nov 20)</td>
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</table>

**Woodturning II**

**PREREQUISITE: WOODTURNING I**

Explore more advanced projects now that you’re comfortable using the lathe and understanding basic tool usage. This class is intended to give students more time on the machines with the guidance of the instructor. Demonstrations in additive sculpture is emphasized. Students are encouraged to bring their own materials and project ideas.

<table>
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<tr>
<th>2 SESSIONS</th>
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<tr>
<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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</table>
| Mar 18-20 | Fri
| 6-9 pm | 2WOD33A16-A |
| (Register BY Nov 20) | $349.25 | Members $317.75 |
| (Register AFTER Nov 20) | $365.00 | Members $333.50 |

**The Bandsaw Box**

**ENTRY-LEVEL**

Learn to design, make, and finish your own unique wood box. You don’t need a fully equipped shop or decades of experience to enjoy woodworking! With an emphasis on tool safety and material exploration, we’ll use a combination of power tools and hand tools to make simple and individualized boxes of all shapes and sizes.

Beginning with a solid block of wood, you’ll learn how to layout, cut, sculpt, and assemble the block into the form of a box. Demonstrated techniques include hidden hinges, small drawers, pull knobs, and fitted lids, as well as texturing, carving, burning, painting, and finishing. This course is suitable for beginners as well as intermediate students. All materials are provided.

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<td><strong>Crucible Faculty</strong></td>
<td><strong>Crucible Faculty</strong></td>
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<tr>
<td>Feb 27 &amp; 28</td>
<td>Sat &amp; Sun</td>
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<tr>
<td>11 am-5 pm</td>
<td>2WOD15A16-FB</td>
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<tr>
<td>(Register BY Nov 20)</td>
<td>$537.75</td>
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<tr>
<td>(Register AFTER Nov 20)</td>
<td>$565.00</td>
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</tbody>
</table>

“Way beyond expectations—which is awesome because my expectations were sky high!”

— Woodturning student, Winter 2015

“Excellent class, truly. Jolie is a really good instructor– knowledgeable, approachable, encouraging. Would love to take another class!”

— Karen B, Woodturning class, Fall 2015

**Adrien Segal**

**Woodturning I**

“Jolie [my instructor] is a great instructor. Very approachable, encouraging. Would love to take another class!”

**— Karen R, Woodturning class, Fall 2015**
Hands-on Creativity

At The Crucible, kids learn by doing. Classes can involve exploring geometry and welding a customised bike frame, blowing glass vessels after learning about heat application, or soldering components to build a battery powered "beetle-bot." Students can handcraft beautiful glass and metal jewelry in the morning and then explore torch blowing glass vessels after learning about heat application, exploring geometry and welding a customized bike frame.

The Crucible is the only place where kids can explore blacksmithing, welding, woodworking, glass blowing, ceramics and many more options, all under one roof. There’s a lot of creative problem solving and opportunities to apply things they learn in school. But it’s not like homework, it’s a lot of hands-on fun…and just plain cool!

And parents agree: “My son loved this camp more than any other camp that he’s ever been in,” said one recently.

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 make something in every class that they take home at the end of the course.

Something for Everyone

Crucible kids range from ages 8 to 17, with content geared to each age group. Camps run during Spring Break, March 28-April 1, and over a six-week period from June 20th to August 5th. Students can enroll in half-day or full-day sessions, and after-care is available from 4-6 pm, see page 39. Need-based scholarships are available.

All youth MUST HAVE a completed parental consent form and a completed medical authorization form on file before the first day of class. These forms MUST BE SUBMITTED for each and every quarter at The Crucible. Youth cannot participate without these forms on file. NO EXCEPTIONS: Youth attending all day classes should bring a sack lunch. Morning and afternoon snacks are provided. No weapon making in youth classes.

Youth Blacksmithing (ages 12-17)

Learn to bend and shape steel in The Crucible’s smithy as you practice traditional blacksmithing techniques such as drawing, bending, twisting, punching, slitting and drifting using the forge and anvil. Students will learn to forge with confidence and complete projects such as a bracelet, book, fork, and spoon.

Weekend

Crucible Faculty
Mar 12 & 13 Sat & Sun 10 am-5 pm
Price $415.00 Members $381.50

After School (6 sessions)
Crucible Faculty
Jan 11-Feb 29 Mondays 4-6:30 pm
No class Jan 18 or Feb 15
Price $405.00 Members $372.50

Spring Break
Crucible Faculty
Mar 28-Apr 1 Mon-Fri 9 am-12 pm
Mar 28-Apr 1 Mon-Fri 1-4 pm
Price $420.00 Members $386.00

Summer Camp
Crucible Faculty
Jun 20-24 Mon-Fri 9-12 pm
Jul 11-15 Mon-Fri 9-12 pm
Jul 18-22 Mon-Fri 9-12 pm
Jul 25-29 Mon-Fri 9-12 pm
Aug 1-5 Mon-Fri 9-12 pm
Price $725.00 Members $654.50

Youth Clay Critters (ages 8-11)

Explore clay as a sculptural material to create critters of your own imagination! Learn hand building techniques, mold making with plaster, and different surface treatments with traditional glazes and non-traditional approaches. We will also venture into including other materials, such as fabrics, metal, and wood into our critters.

Spring Break
Crucible Faculty
Mar 28-Apr 1 Mon-Fri 1-4 pm
Price $15 per hour

Summer Camp
Crucible Faculty
Jun 20-24 Mon-Fri 9-12 pm
Jul 27-July 1 Mon-Fri 9-12 pm
Jul 11-15 Mon-Fri 9-12 pm
Jul 18-22 Mon-Fri 9-12 pm
Jul 25-29 Mon-Fri 9-12 pm
Aug 1-5 Mon-Fri 9-12 pm
Price $75.00 Members $69.50

Youth Enameling (ages 12-17)

Discover the ancient art of fusing glass to metal. You’ll learn techniques in metal preparation and fabrication technique involving fire and smoke to create beautiful metallic glaze finishes.

Spring Break
Crucible Faculty
Mar 28-Apr 1 Mon-Fri 1-4 pm
Price $19 per hour

Summer Camp
Crucible Faculty
Jun 27-July 1 Mon-Fri 1-4 pm
July 25-29 Mon-Fri 1-4 pm
Price $290.00 Members $267.00

Youth Portraits in Clay (ages 12-17)

Use hand building techniques to make contemporary busts out of clay. This class is great for youth interested in using clay to sculpt portraits and take clay skills to the next level! We will finish the class with raku, a hands on firing technique involving fire and smoke to create beautiful metallic glaze finishes.

Summer Camp
Crucible Faculty
Jun 20-24 Mon-Fri 9-12 pm
Jul 11-15 Mon-Fri 9-12 pm
Jul 18-22 Mon-Fri 9-12 pm
Jul 25-29 Mon-Fri 9-12 pm
Aug 1-5 Mon-Fri 9-12 pm
Price $320.00 Members $298.00

Youth Blacksmithing Immersion Program (ages 12-17)

Dive deep in this beginning, intermediate, and advanced level youth weekend workshop. Students take an immersive step into week-long study becoming young artisans by the end. You’ll learn theory, principles, and extensive techniques that will give you the necessary skills to design and create your own independent projects. No experience is necessary.

Summer Camp
Crucible Faculty
Jun 27-July 1 Mon-Fri 9 am-4 pm
Price $21 per hour

Youth Enameling (ages 12-17)

Discover the ancient art of fusing glass to metal. You’ll learn techniques in metal preparation and fabrication for enameling, kiln properties and firing methods, properties of enamel, and dry and wet applications. No previous experience in jewelry making, enameling, or metalworking needed.

Summer Camp
Crucible Faculty
Jun 27-July 1 Mon-Fri 1-4 pm
Price $17 per hour
**Youth Foundry**

**Youth Adventures in Sand Casting** *(ages 12-17)*

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

**SUMMER CAMP**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Cost</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>15 hours</td>
<td>$30.00</td>
<td>Members $30.00</td>
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**Youth Glass Blowing** *(ages 14-17)*

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 color, and shape and sculpt molten glass. Be prepared work in the heat!

**SUMMER CAMP**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Cost</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>15 hours</td>
<td>$365.00</td>
<td>Members $337.50</td>
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</table>

**Youth Glass Flameworking** *(ages 12-17)*

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

**AFTER SCHOOL (6 sessions)**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Cost</th>
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<tr>
<td>15 hours</td>
<td>$27 per hour</td>
<td>Members $25 per hour</td>
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**Youth Fusing & Slumping** *(ages 12-17)*

We’ll dive into both 2D and 3D projects, which may include fused tiles, jewelry, treasure chests, wind chimes, cityscapes, toadstools, insects, and jellyfish. You are encouraged to choose projects and create art based on your own interests.

**SUMMER CAMP**

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<thead>
<tr>
<th>Duration</th>
<th>Cost</th>
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<tbody>
<tr>
<td>15 hours</td>
<td>$23 per hour</td>
<td>Members $21 per hour</td>
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**Youth Glass Blowing Immersion Program** *(ages 14-17)*

Dive deep in this beginning, intermediate, and advanced level youth weeklong workshop. Students take a massive step into week-long study becoming young artisans by the end. You’ll learn theory, principles, and extensive techniques that will give you the necessary skills to design and create your own independent projects. No experience is necessary.

**SUMMER CAMP**

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<thead>
<tr>
<th>Duration</th>
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<tbody>
<tr>
<td>30 hours</td>
<td>$35 per hour</td>
<td>Members $32.25 per hour</td>
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</table>

**Youth Glass Flameworking Immersion Program** *(ages 12-17)*

The Crucible Immersion Workshops are designed to give students - beginner level to advanced - an opportunity to do a deep-dive study in Glass Flameworking. Over the course of five days, you’ll learn the science and lore of this centuries-old art while you create beautiful objects such as ornaments, pendants, sculptures and exquisite mables, just as the Venetian Masters have. Safe and efficient operation of oxy-propane torches, kilns and shaping tools will be covered, and you will have the necessary skills to work independently. Advanced color pulling, glass compatibility and patterning techniques will have you brimming with new ideas!

**SUMMER CAMP**

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<thead>
<tr>
<th>Duration</th>
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<tr>
<td>35 hours</td>
<td>$18 per hour</td>
<td>Members $16.60 per hour</td>
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**Youth Frame Alteration: Art Bike** *(ages 12-17)*

You are required to bring your own bicycle. Customize your bicycle in our exciting youth workshop! You’ll learn basic fabrication skills in MIG welding. Oxy/Acetylene torch, grinding, and finishing to reconstruct bicycles. Bike frames are stripped and students learn to redesign and alter handlebars, rims, seat posts, and frames to create a unique, hip ride. Fabricate a unique look that will make you the talk of the neighborhood.

**SUMMER CAMP**

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<tr>
<th>Duration</th>
<th>Cost</th>
<th>Faculty</th>
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</thead>
<tbody>
<tr>
<td>30 hours</td>
<td>$22 per hour</td>
<td>Members $20.20 per hour</td>
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</tbody>
</table>

**Youth Gravity Cars** *(ages 8-11)*

Build. Test. Adjust. Build. Race. Gravity Cars is a no-rules miniature car-building and racing competition inspired by the Nerdy Derby. Like the Nerdy Derby we will have a large, undulating track and no restrictions on the size of the cars or materials that can be used. Gravity Cars reward creativity, cleverness and ingenuity.

**SUMMER CAMP**

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<tr>
<th>Duration</th>
<th>Cost</th>
<th>Faculty</th>
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</thead>
<tbody>
<tr>
<td>15 hours</td>
<td>$20 per hour</td>
<td>Members $18 per hour</td>
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</tbody>
</table>

**Youth Adventures in Soft Glass: Beads, Bugs & Monsters!** *(ages 14-17)*

Monster expert Ralph McCaskey takes you on a journey in soft glass, sharing secrets to creating colorful glass beads, bugs, and monsters with crazy eyes and whacky facial expressions using an oxy-propane torch. We will cover bead surface patterns, shaping and forming glass, and we’ll take a brief historical look at monsters to inspire your very own projects.

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<tr>
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<tbody>
<tr>
<td>15 hours</td>
<td>$23 per hour</td>
<td>Members $21 per hour</td>
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**Youth Creatures in Fused Glass** *(ages 12-17)*

Create a variety of organisms and habitats in both warm and cold glass. You’ll learn to cut, shape, and embellish glass using a variety of tools, molds, and machines. We’ll dive into both 2D and 3D projects, which may include fused tiles, jewelry, treasure chests, wind chimes, cityscapes, toadstools, insects, and jellyfish. You are encouraged to choose projects and create art based on your own interests.

**SUMMER CAMP**

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<thead>
<tr>
<th>Duration</th>
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<tbody>
<tr>
<td>15 hours</td>
<td>$21 per hour</td>
<td>Members $19 per hour</td>
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</tbody>
</table>

**Youth Hot Wheels**

**Youth Gravity Cars** *(ages 8-11)*

Build. Test. Adjust. Build. Race. Gravity Cars is a no-rules miniature car-building and racing competition inspired by the Nerdy Derby. Like the Nerdy Derby we will have a large, undulating track and no restrictions on the size of the cars or materials that can be used. Gravity Cars reward creativity, cleverness and ingenuity.
**Youth Jewelry**

**Youth Exploration in Metal Jewelry** (ages 12-17)

Make a fashion statement! Using copper, silver, and other nonferrous metals, you’ll learn jewelry and metal art skills to create trendy jewelry of your own design. In this hands-on class you’ll 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.

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<tbody>
<tr>
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<td>9 am–12 pm</td>
<td>5KIN10K16-YA</td>
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<td>Mon–Fri</td>
<td>9 am–12 pm</td>
<td>5KIN10K16-YC</td>
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<tr>
<td>Aug 1–5</td>
<td>Mon–Fri</td>
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<td>5KIN10K16-YE</td>
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</table>

Price $355.00  Members $327.00

**Youth Casting Wax to Silver** (ages 12-17)

Prerequisite: Youth Exploration in Metal Jewelry

Learn the lost wax casting process, an age-old sculptural jewelry casting process 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’ll 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.

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Price $410.00  Members $381.00

**Youth Jewelry Immersion Program** (ages 12-17)

Dive deep in this beginning, intermediate, and advanced level youth weekend workshop. Students take a three-year intensive step into week-long study becoming young artisans by the end. You’ll learn theory, principles, and extensive techniques that will give you the necessary skills to design and create your own independent projects. No experience is necessary.

**SUMMER CAMP**

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<td>5KIN85P16-YE</td>
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</table>

Price $300.00  Members $268.50

**Youth Glass Tube Sculpture: Intro to Neon** (ages 12-17)

Learn the science behind neon gases as you are taught how to shape, bend, and manipulate glass tubes into letters and figures. Colored sand will be substituted for neon gas in the final project to create a brightly colored sculpture that you can display with pride.

**SUMMER CAMP**

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<td>Mon–Fri</td>
<td>1–4 pm</td>
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<td>Mon–Fri</td>
<td>1–4 pm</td>
<td>5NEL10K16-YE</td>
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</table>

Price $275.00  Members $251.50

**Youth Neon & Light**

**Youth Kinetics Immersion Program** (ages 12-17)

Dive deep in this beginning, intermediate, and advanced level youth weekend workshop. Students take a three-year intensive step into week-long study becoming young artisans by the end. You’ll learn theory, principles, and extensive techniques that will give you the necessary skills to design and create your own independent projects. No experience is necessary.

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<td>9 am–12 pm</td>
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<td>Aug 5–8</td>
<td>Mon–Fri</td>
<td>9 am–12 pm</td>
<td>5KIN29K16-YD</td>
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Price $490.00  Members $460.00

**Youth Kinetics & Electronics**

**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 switchaxes to operate your very own fantastical contraption!

**AFTER SCHOOL** (6 sessions)

<table>
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<tr>
<th>Date</th>
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<th>Time</th>
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<tbody>
<tr>
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<td>Mondays</td>
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</tbody>
</table>

No class Jan 18 or Feb 15

Price $225.00  Members $202.50

**Youth Textiles & Leather**

**Youth Leather Working** (ages 12-17)

Learn techniques for working with leather, including cutting, edging, stitching, dyeing and oiling. Setting rivets, and adding hardware like buckles will also be covered as well as design and safety issues. Each student will make a belt and at least one bag.

**SUMMER CAMP**

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<td>STEX2K16-YC</td>
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<td>STEX2K16-YE</td>
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Price $340.00  Members $314.50

**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 mythological beasts and characters as a starting point.

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<td>Mon–Fri</td>
<td>1–4 pm</td>
<td>STEX1K16-YD</td>
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</table>

Price $255.00  Members $233.00

**Youth Paperpalooza** (ages 8-11)

Learn a new art technique every day of the week in this exciting, playful class! Students design and create unique, colorful block prints, make beautifully marbled paper, discover the excitement of resist cutting, explore the shimmer of embossing, and more. At the end of the course, students will have plenty of beautiful paper creations featuring swirls and kaleidoscopes of colors to display!

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<td>Mon–Fri</td>
<td>1–4 pm</td>
<td>STEX1M16-YD</td>
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Price $265.00  Members $243.00
**Youth Woodworking**

**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’ll create a unique 3D project of your own.

**SPRING BREAK**
Price $385.00 Members $351.50

**SUMMER CAMP**
15 hours from $22 per hour

**Youth Woodturning**
(ages 12-17)
Using a lathe, you can turn a rough piece of wood into a beautifully shaped spindle or bowl. In a jam-packed, two-day class, you’ll learn the basics of the turning process as you explore small bowl turning and spindle turning. We’ll cover tool usage and sharpening, as well as wood selection, preparation, and finishing.

**SUMMER CAMP**
15 hours from $22 per hour

**Youth After Care**
1 hours 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 4:30pm.

**Youth Welding**

**Youth Intro to Welded Sculpture**
(ages 12-17)
Learn to fuse, cut, bend, and shape metal. This intensive introduction to stick welding (also known as arc welding) and oxyacetylene torch cutting is taught by a technical pro. In-depth demonstrations and one-on-one guidance will be given on the safe and effective operation of welding equipment as instructors help you create a small welded sculpture or project.

**WEEKEND**
12 hours from $28 per hour
Crucible Faculty
Mar 12 & 13 Sat & Sun 10 am–4 pm 3ARC10K16-YA

**SPRING BREAK**
15 hours from $21 per hour
Crucible Faculty
Mar 28–April 1 Mon–Fri 9 am–12 pm 3ARC10K16-YA
Mar 28–April 1 Mon–Fri 1–4 pm 3ARC10M16-YA

**SUMMER CAMP**
15 hours from $21 per hour
Crucible Faculty
Jun 20–24 Mon–Fri 9 am–12 pm 5ARC10K16-YA
Jul 11–15 Mon–Fri 9 am–12 pm 5ARC10K16-YA
Aug 1–5 Mon–Fri 9 am–12 pm 5ARC10M16-YA

**Youth TIG Welding**
(ages 14-17)
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.

**SUMMER CAMP**
15 hours from $23 per hour
Crucible Faculty
Jun 20–24 Mon–Fri 9 am–12 pm 5TIG10K16-YA
Jul 11–15 Mon–Fri 9 am–12 pm 5TIG10K16-YA
Aug 1–5 Mon–Fri 9 am–12 pm 5TIG10M16-YA

**Youth MIG Welding**
(ages 12-17)
Learn the fundamentals of MIG (Metal Inert Gas) welding and plasma torch cutting. We’ll focus on making an electricity “arc” through the air to the steel creating enough heat to melt it and the steel wire you are adding to it, effectively creating a weld. You will learn how to use this process to run beads, tack weld and create joints. In addition you will be introduced to the plasma torch, which allows you to use electricity to transform atmospheric gas into plasma. Students complete a small project.

**SUMMER CAMP**
15 hours from $23 per hour
Crucible Faculty
Jul 25–29 Mon–Fri 9 am–12 pm 5MIG10K16-YA
Aug 1–5 Mon–Fri 9 am–12 pm 5MIG10M16-YA

**Youth MIG Welding**
(ages 14-17)
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.

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15 hours from $23 per hour
Crucible Faculty
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Aug 1–5 Mon–Fri 9 am–12 pm 5TIG10M16-YA

**Youth After Care**
1 hours after care 4–5 pm
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**Youth After Care**
2 hours after care 4–6 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 4:30pm.

**Youth Woodworking**

**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’ll create a unique 3D project of your own.

**SPRING BREAK**
15 hours from $16 per hour

**SUMMER CAMP**
15 hours from $16 per hour

**Youth Woodworking**

**Youth Woodcarving & Sculpting**
(ages 8-11)
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**SPRING BREAK**
15 hours from $16 per hour

**SUMMER CAMP**
15 hours from $16 per hour

**Youth Woodturning**
(ages 12-17)
Using a lathe, you can turn a rough piece of wood into a beautifully shaped spindle or bowl. In a jam-packed, two-day class, you’ll learn the basics of the turning process as you explore small bowl turning and spindle turning. We’ll cover tool usage and sharpening, as well as wood selection, preparation, and finishing.

**SUMMER CAMP**
15 hours from $22 per hour

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**Youth After Care**
2 hours after care 4–6 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 4:30pm.
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.

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

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 deferrals for missed classes.

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

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

1260 7th Street, Oakland, CA 94607
Deepen Your Commitment
Consider becoming a member at the Vulcan level ($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/membership
- **ONSITE** Stop by the reception desk in The Crucible administrative office
- **PHONE** Call us at 510-444-0919 x110

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 birthday, graduation, or holiday gift.

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

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

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.

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 enjoy:
- Ten percent discount on tuition, additional savings on select courses throughout the year
- Members-only early registration
- Discounts on event ticket tickets
- Exclusive access to CREATE program (page 5)

Membership Levels
- **STUDENT/EDUCATOR** • $50 (with valid ID)
- **FIRECRACKER** • $75
- **PYRO** • $150
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