Parking
Parking is available on our lot to the East of the building at the corner of Delmar Blvd. and Lake Ave. On occasion students may be requested to park in the lots to the West of our building in a shared lot owned by the neighboring business.

Instructors
Instructors will be introduced at the first class.
Your instructors are:
Flameworking: ____________
Hot Glass: ____________
Kilnworking: ____________

You may direct inquiries and notices to your instructor or directly to classes@stlglass.com.

Grades
Grading will be based on attendance, level of engagement and completion of projects

Attendance
● Three unexcused absences may result in a failing grade
● Automatically excused absences are documented medical or family emergencies.
● Documentation should be provided no later than 7 days following the absence.

Timeliness
● Classes begin on time.
● Arriving more than 10 minutes after the start of class may be counted as an absence.

Class Times
Some portion of each class will be devoted to lecture/demos. The remainder of the class will be independent studio time.

What to Bring
Something to drink/water bottle
Notebook and Pencil

What to Wear
Natural Fibers are better than synthetics
Safety Glasses – Studio will provide.
NO gloves
NO OPEN TOED SHOES
NO LOOSE ITEMS (including hair, tie back long hair or you may lose it).
If you do not follow these rules we reserve the right to send you home to get the appropriate attire.

Recycling and Trash
Be conscious of your standard items aluminum, plastic and glass bottles.
We also reuse as much scrap glass and other supplies as is feasible.
Please clean up after yourself, specifically if you bring food and beverages into the studios.

Safety
Liability Waiver. You are required to sign two waivers, one from Third Degree and one from Washington University. All students should know the risks of working with glass. We attempt to run a safe shop, but cannot protect you from everything.

Cell Phones
DO NOT use cell phones during class. The instructors and your classmates expect your attention and respect.

Moving in the Studios
At any time up to half a dozen people are moving around the studio holding sheets of very sharp glass, or 2000 degree glass and metal objects. To avoid cutting or burning yourself or each other, we suggest that you move slowly and let a person who is holding glass know that you are passing them. Addressing people by name with specifics is helpful e.g. “Casey I’m right behind you.”

Drugs and Alcohol Policy
Do not come to class if you have been drinking or have consumed anything else that would impair your coordination, judgment or balance.

Burns & Cuts
Most students will receive minor burns and cuts as a natural part of learning to work with glass. Report all burns and cuts to a staff member immediately. Time is of the essence with burns. Always place the burn under cool running water as the first step. Often the pain is not as severe initially, then suddenly it can become uncomfortable. Stop working even if you think it is minor, head to the sink in the Flame studio and proceed with running cool water over the affected area while waiting for assistance from your instructor.

Un-annealed Glass
Shards and other pieces of un-annealed glass in and of the studios can be extremely dangerous and may explode without warning. Under no circumstances should ANY piece of glass be removed from the studio unless it has been annealed.
Glass Drops, pops, etc.
Hot Glass - Molten glass that falls on the floor needs to be moved immediately. Gently “kicking the blob” is acceptable. Attempt to move it only a foot or two and ask for the assistance of your instructor.
In all studios glass may break and pop, flying across the studio making it imperative that safety glasses are worn in all studios at all times.

Hot and Sharp
Assume that all surfaces are hot or sharp. Always approach with caution if you are uncertain. Specific guidelines will be shared in each studio.

How to Get Kicked Out
With over a dozen people working simultaneously, we must control the behavior of the students for the safety and enjoyment of all. We will warn you once, at the second instance of unsafe behavior you will be asked to leave.

Reckless Behavior
Disregarding the safety of the other students or the fragility of the equipment is grounds for immediate dismissal. If you do not know how to operate a piece of equipment, ask.

Outbursts of Anger
Working with glass can be frustrating, but please restrain from angry outbursts or vitriolic tirades. NEVER throw or slam an object in the studio.

Hot Glass 5 Week Session
Week 1 - Hot Shop Orientation

Safety Talk
Mental and physical preparation, clothing
Hot Equipment and Tools
Safety Glasses
Unannealed Glass
Hydration
Textbooks

Equipment Overview
Pipe Warmer, Furnace, Garage, Pick-up ovens, Marver, Glory Hole, Yoke, Bench, Break off table, Gas torch, Annealers, Pipe Bubbler
How to use the Yoke and Glory Hole
How to sit at the Bench, Cold movement drills - furnace to bench and back again
**Bench and Hand Tool Description and Usage**

Blowpipe & Punties, Pipe Cooler  
Jacks, Tweezers, Straight & Diamond Shears, Wood blocks  
Paper, Pachioffs  
Cold pipe rolling drill

**Gathering Exercises**

Cold gathering drill - Bucket practice  
Blocking or shielding, working the door  
Practice Gathering - 1st Gather Drills: Least Amount; Normal Gather (marver a cylinder)  
Marvering - Drill: Gather, Marver, Marble  
Punty Making

**Week 2 - Solid Glass and Starter Bubbles**

**Gathering (about 1hr-45mins)**

Marver and punty practice: Punty and One Gather drills  
Turning and practice moving between bench and hole with hot glass: Two Gather Drill  
Solid Glass exercises: Caterpillar drill, Tweezer drill, Clear paperweight drill  
Transferring / puntying: Pass the Ball drill

**Gathering with a Blowpipe (about 1hr-45mins)**

Marvering for Blowing  
Starting a bubble  
Reheating  
Blowing a ball and Necking

**Week 3 - Basic Blowing**

**Being good assistants**

Anticipation  
Paying attention  
First assistant - turning, bench blowing, and taking heats  
Second Assistant - organizing tool bench, block set up, shielding, paddling  
Serving bits

**Gathering second and third gathers (1st Hour)**

Caterpillar Sculpture drill

**Blowing Vessels (2nd + 3rd Hour)**

Vessel Demonstration: demo the blowing process, make a cylinder cup  
Sphere, then Cylinder in the work process  
Flattening bottoms  
Transferring and opening
**Week 4 - Variations on Cylinder and Sphere**

*Amphora shape - vessels with necks*
Work process for tall, closed shapes
Using wet paper for shaping
Vases with tapered bodies
Various tops - necks, trumpets, drawn neck

**Week 5 - Bit Work**

*Hemispherical Bowls*
Work process for low, open shapes
Use of Pachioffis and wet newspaper
Turning to open - three ways to shape

**Kilnworking 5 Week Session**

**Week 1 - Intro - Edge Construction and Thick Block**

*Safety Talk*
Mental and physical preparation, clothing
Kiln Equipment and Tools
Safety Glasses
Unannealed Glass

*Equipment and Tool Overview*
Kilns
Glass Cutters, Running Pliers, Grozing Pliers
Mats Rulers and Squares
Storage Space
Vacuum
Clean up

*Edge Construction Project*
Cutting Glass
Thinfire Paper
Arranging your glass
Clean and Loading Kilns
Thick Block Project
With this project you will be asked to create an image within a block of glass. You will be given one square foot of glass to cut into six, 4” x 6” pieces of glass. Through a stencilling technique an image will be painted onto multiple layer of glass to create an image that has depth.

For Week 2 - Bring to class some images that you are inspired by, or you can use as a starting point for your design. Images should be copied or print in black and white and be sized appropriately for your ideas. Bring in at least five images.

Week 2 - Edge Construction and Thick Block cont.

Edge Construction Project
Cleaning your glass and Loading Kilns

Thick Block Project
Glass Cutting
Contact Paper
Paint

Week 3 - Fused Mosaic Intro, Edge and Thick cont.

Edge Construction Project
Slumping

Thick Block Project
Finish painting and powder. Then load in kiln for pre-fire.

Fused Mosaic
Introduction

Week 4 - Stringer Drawing, Mosaic, Thick Block

Thick Block
Clean and stack for final firing.

Mosaic
Glass Cutting
GlasTac

Stringer Drawing
Introduction
Week 5 - Stringer Drawing, Mosaic

Mosaic
Powder in-fill

Stringer Drawing
Vitrograph Kiln
Design and Load

Flameworking 5 Week Session

Week 1 - Intro - Torches, Kilns, and Tools

Safety Talk
Mental and physical preparation, clothing
Torches and Kilns
Safety Glasses
Unannealed Glass

Equipment and Tool Overview
Mandrels
Tool Boxes
Putting all tools back
Inventory. Each box contains: Eye Glasses, water cup, scissors, knife, striker, graphite marver rod rest, mandrel holder, Tungsten pick, mini-masher, grooved pad, greedy grabbers and tweezers (13 total)
Glass Rods
Torches
Clean up

Torch Time - Basic Shapes
Round, Square, Triangle, Disk, Drop-Flatten-Twist
Stringers and Dot Beads
Cylinder Beads and Grooved Marver
Make your own frit
Frit Bead
Encasing your frit bead

Week 2 - Technique demos and torch time
Two color bead and twist
Three dots and twist in middle
Rope twist
Stacked dots and twist in-between
Groovy flower
Encased flower with bubble

**Week 3 - Technique demos and torch time**
Stringers on a cylinder bead
Raked and pressed
Rainbow stringers shifted
Making a striped bead
Making a triangle
Masking

**Week 4 - Technique demos and torch time**
Two color twistys
Three color twistys
Applying twistys on Bi-cone
Tiger Bead
Graduated color twisty
Graduated color on barrel
Foils

**Week 5 - Technique demos and torch time**
Hearts
Fish
Flowers
Leaf
Bumble Bee