

EXPLORATORIUM COURSE OFFERINGS 2012

Week 1

Blogging and News Reporting – Gabe Rivens
 Career Explorations – Randall Williams
 Civil Rights Experience – Kate Pendergrass and Christel Butchart
 Comic Design – Jamie Charles
 Exploring Camelot – Ida Trisolini and Rachel Anderson
 Forensic Science – Jennifer Coble
 In the Garden – Nancy Parsifal
 In the Kitchen—Leon Ikenberry
 Smokies: Hiking and Poetry—Henry Walker
 So You Want to Start Your Own Business – Mig Little Hayes
 The Diamond: Our National Treasure – Dave Donaldson
 World Religions in Our Neighborhood – Jim Henderson

Week 2

3D Creations—Jamie Charles
 Diamond’s Are A Girl’s Best Friend – Dave Donaldson
 Digital Photography – Amelia Shull
 Exploring Deep Space– Jim Rose and Rainie Heck
 “Flour” Power: Baking in the Kitchen—Mary Deborah Englund
 Geocaching – Lisa Joyner, Ben Alexander, Nick Tansey
 Imaginative Adventures Together - Annie Dwyer and Emily Chamberlain
 Is There an App for That? – Joanna Sisk Purvis, Jos Purvis
 North Carolina History—Jim Henderson
 Rock Climbing – Anna and Flannery Lynch
 Science and Science Fiction—Robert Bittle
 Sharing the Gift of Reading—Nancy Parsifal
 Tour de France – Francoise Heyden and Coleman Whittier
 Yoga & Ballet Conditioning Mini-Retreat – Sherri Moore-Mott

Week 3

4th Year Trip—Robert Bittle, Leon Ikenberry, Christel Butchart
 Altars, Shrines and Keepsakes – Lisa Joyner
 Celebrate the 10 Year Anniversary of our Afghan Sister School – Francoise Heyden
 Cooking with Kindness – Mary Deborah Englund
 Cooperative Games and Activities – Dave Donaldson
 Growing Goodness – Jon Lepofsky
 Guttled Books—Ida Trisolini and Rachel Anderson
 Instrument Boot Camp – Joanna Sisk Purvis
 Learning to Play Bridge – Henry McGuide
 Scrapbook and Slideshow—Henry Walker
 Who Uses Polynomials Anyway?—Kate Pendergrass

Blogging and News Reporting

Gabe Rivin

Location

CFS, local media outlet's headquarters

Week 1

Costs

None

Brief Description of Course

In our week together, news novices and experts alike will immerse themselves in the world of online media. We will learn the basics of news reporting, and we will explore the media's important—and changing—role in our democracy. We will then put our knowledge to work by creating our own blog. Students will have the chance to work as editors, web designers, and reporters, and will decide together how to run the blog. We will likely take a field trip to a local media outlet, where we can learn from the pros. Fedora hats are encouraged!

By the End of This Class You Will. . .

- Learn how to write a news story by conducting interviews, fact checking information, and organizing your information
- Create a blog—covering anything from political news to the arts—that can last beyond the summer
- Have the opportunity to interview adults with challenging, and even controversial, questions
- Discover how the media offers a voice for our community

Activities During the Week

On our first day together, we will explore some basics of the news, including its importance for our society. Our second day will allow students to decide, together, just what sort of blog we'd like to create. Day three will hopefully allow us to visit a local media outlet; there, we can learn from professionals about the joys of this high-paced job, and how we can best work together. Our last two days will focus mostly on reporting, researching, peer editing, and putting the final touches on our stories.

Before You Sign Up, Make Sure You...

- Enjoy online research of your interests
- Work well with groups
- Are excited to question common assumptions
- Can remain open to suggestions for your writing

Career Explorations

Randall Williams

Location

CFS and in the field at jobs

Week 1

Costs: \$10-\$15 for business luncheon

Brief Description of Course

Have you ever wondered what it would be like to work in different careers? Do you want to be a lawyer, farmer, doctors, writer, artist or zoo keeper? In this course, we will work to identify our talents and interests in hopes of matching them with professional careers. On Tuesday, our first day, we will discuss the idea of vocation (or, being called to act) and try to identify our personality types to see if they match careers in the professional world. During the next two days, we will venture into Durham and Chapel Hill areas to participate in job internships. Past internships have included those at the Great Harvest Bread Company, Piedmont Feed and Garden Center, The Regulator Bookstore, WUNC and an animal shelter. On our final day, we will meet at school to enjoy a “business luncheon” in order to reflect upon our work experiences.

By the End of This Class You Will Know. . .

- Yourself a lot better
- How to interview for a job and write a resume
- What it is like to work in various jobs

Activities During the Week

On the first two days we will explore ourselves by taking an abbreviated Myers-Briggs personality test to see if there are jobs that are well-suited for us. We will also do “mock job” interviews to learn what might be helpful in an interview situation. Each student will spend two days out “in the field” of their chosen internship during Wednesday and Thursday. On Friday, we will sum up our experiences by preparing presentations for our business luncheon. We will also write thank-you notes to our hosts.

Before You Sign Up, Make Sure You Know...

You should have at least an idea of what career(s) you might like to explore. Students will need to meet with Randall before Exploratorium begins to consider sites for possible meaningful internships. We will work out transportation to and from our internships prior to the beginning of the Exploratorium week. Parents are welcome to assist with the planning and choosing of a career.

The Civil Rights Experience

Kate Pendergrass and Christel Butchart

Location

CFS, Durham, Greensboro,
Atlanta, Montgomery, Selma,
and Birmingham

Week 1

**THIS EXPLORATORIUM IS A TRIP THAT
LEAVES MONDAY AND RETURNS
FRIDAY**

Costs

\$150 (scholarships available)

Brief Description of Course

This class will explore the Civil Rights Movement, its leaders, and some of the prominent places locally and a bit further that were important during this time in history. We will work to understand the historic value of the movement that helped to shape this country for ALL people.

By the End of This Class You Will Know. . .

- Important events and leaders during the Greensboro Sit-Ins, the March on Washington, and the Selma-to-Montgomery March. This trip will also provide an in-depth study of the life and legacy of Dr. Martin Luther King Jr. We will also critically examine current events related to the Civil Rights Movement and the work of the Southern Poverty Law Center.
- What was happening in Durham during the movement and how Durham played a part in the National Movement
- The long-term effects the Civil Rights Movement has on our lives now.

Activities During the Week

During the week we will be traveling to the following places:

- The Birmingham Civil Rights Institute in Birmingham, AL
- The Edmund Pettus Bridge and the National Voting Rights Museum and Institute in Selma, AL
- The Southern Poverty Law Center in Montgomery, AL
- The Martin Luther King Jr. Center for Nonviolent Social Change (includes Ebenezer Baptist Church and MLK Jr.'s childhood home) in Atlanta, GA
- The International Civil Rights Center and Museum in Greensboro, NC
- Civil Rights Legacy Tour in Durham, NC

On Monday morning students should arrive at school packed for a week of traveling. We will be staying in hotels along the way. Meals are included – there will only be two quick “road food” stops and we will be sure to honor all dietary needs. Students will be expected to complete writing assignments and participate in discussions with the class throughout the week.

Before You Sign Up, Make Sure You Know...

Be prepared for intensive research, observation and reflection to go along with the “trip” aspect of this Exploratorium. You will be expected to complete a reading assignment before this Exploratorium, as well as a writing assignment afterwards.

Comic Design

Jamie Charles

Location

CFS

Week 1

Costs

None

Brief Description of Course

In this class you will learn about the art of creating comics and will have the opportunity to practice through several drawing assignments. You may also be able to work on making your very own comic book. You will also spend time learning and studying famous comic artists and their different styles as you develop your own comic design style.

By the End of This Class You Will Know. . .

- The definition of sequential art.
- How to design and plan your own short comic.
- The experience of practicing a drawing before creating your final piece of work.

Activities During the Week

Making your own sequential art. We will work on our drawing skills and some inking and coloring. We will be the director of our story, making sure to use the best “camera angle” for the comic panel.

Before You Sign Up, Make Sure You Know...

. . .that you should bring your love for drawing and creative energy. Be prepared to be invested the whole time.

Exploring Camelot

Rachel Anderson and Ida Trisolini

Location

CFS

Week 1

Costs

none

Brief Description of Course

Hear ye, hear ye, do we have a tale for you. It's the tale of dragons, knights, princesses, wizards, kings, and of course...lowly peasants. Come explore the world of knights, ladies and lords in this exciting course full of enactments, historical discoveries and creative expression. We will recreate the Middle Ages (without the bubonic plague) through dance, visual arts, acting, some creative writing, and mostly role playing. Come find your inner Lancelot or Guinevere!

By the End of This Class You Will Know. . .

- The difference between the renaissance and medieval times and the history on which the Camelot legend is built
- Some medieval facts and terminology
- Some medieval games, crafts, traditional dances, and other knightly endeavors
- A little about the architecture, clothing styles and food of the middle ages

Activities During the Week

Students will take on an assigned role of a character from the Middle Ages. They will conduct research on the lifestyle of that character. Together we will create a Middle Ages portfolio that compiles all our collected knowledge. Our knights, ladies, and even our peasants shall be prepared to undertake a perilous quest for knowledge and glory that will include a pilgrimage to the Scrap Exchange. We will learn some period dance, food preparation, weaponry, and traditional arts and crafts. Our week will end with a medieval festival in which we demonstrate, celebrate and revel in our newfound skills and knowledge.

Before You Sign Up, Make Sure You Know...

- We will be playing outside and doing art projects that include paint. *Plan to get dirty every day.*
- We will be doing some research online early in the week.
- You will need to snack every day. You will need to bring lunch every day except Friday when we'll cook our own feast. (If you have special dietary needs, you may still want to bring your own lunch and snack on Friday.)
- If you have any items, books, props, costumes etc. related to Camelot, King Arthur, or the Middle Ages, you are encouraged to bring them.

Forensics

Jennifer Coble

Location

CFS and SBI Crime Lab

Week 1

Costs

None

Brief Description of Course

Have you ever wondered what it is really like to be a crime scene investigator or what really happens to the evidence collected from a crime scene? Where does it go, how does it tell its story, and most importantly, how can it be used to solve the crime? In this Exploratorium, you will have a chance to become the scientist that actually analyzes the evidence and uses it to solve the crime. Throughout the week, we will analyze DNA, fingerprints, blood, hair, and fiber samples and use this evidence to identify which suspect should be charged with the crime. We visit a real world forensics laboratory at the State Bureau of Investigation and interview a forensic scientist to learn more about the daily tasks of her job. We will also speak with investigators who work for the police department about the proper methods for collecting evidence from the scene of a crime. At the end of the week, your skills as a crime scene investigator will be put to the test as you will collect and analyze data from a mock crime scene to identify which suspect should be charged with the crime.

CRIME SCENE DO NOT CROSS

By the End of This Class You Will . . .

- Learn about how evidence is collected from a crime scene
- Interview a police detective to learn more about his role in crime scene investigations
- Visit the State Bureau of Investigation forensics crime lab
- Interview a forensics scientist working at the State Bureau of Investigation
- Create and use a DNA fingerprint to identify which suspect can be placed at the scene of the crime
- Analyze hair and fiber samples and align with those found at crime scene
- Collect and analyze fingerprints found at the scene of a crime
- Collect and document evidence from a mock crime scene
- Use evidence collected from a crime scene to build the case against a suspect

Before You Sign Up, Make Sure You ...

- Are comfortable talking about crimes
- Enjoy laboratory analysis
- Can pay attention to detail
- Can use evidence to solve a crime
- Enjoy a challenge
- Are good working on a team

In the Garden!

Nancy Parsifal

Location:

CFS

Week 1

Costs

\$10.00

Brief Description of Course

Develop a love of nature and harmony with the outdoors! Learn how to plant, grow, and harvest vegetables, herbs and flowers. Discover which plants attract butterflies and bees (beneficial insects). We will continue to learn the ins and outs of a garden by planting seeds, cultivating crops, weeding and hopefully eating some of what we are growing. Let's combine a bit of science with journaling, drawing/watercolors (hopefully there will be flowers as well as plants) as well as time for some meditation and reflection. We also plan to take a trip to an established garden and get ideas on how we would like our garden to grow in the future. Join me for a garden adventure!

By the End of This Class You Will Know. . .

- How to take real ownership in creating beauty along with food
- How to maintain a compost pile
- About the role of soil microbes and companion plants
- How to attract beneficial insects and repel garden pests
- Why we want to plant native plants whenever possible
- How to create simple crafts to enhance the garden's beauty
- Many ways to discover the beauty in nature

Activities During the Week

After an initial orientation and planning of jobs for the day, we will spend our mornings working on projects like planting, weeding, mulching, trimming and whatever other activities will help beautify the garden. In the afternoons we will journal, reflect, work on crafts, paint with watercolors and reflective meditation as the spirit moves us.

Before You Sign Up, Make Sure ...

- You have a willingness to work in the HEAT or RAIN, whatever nature brings.
- You bring comfortable, close-toed shoes, grubby clothes for painting, a hat, sunscreen, work gloves, and a water bottle.
- You also bring lunch and a snack daily.
- You bring a spirit of sharing and a SMILE on your face!

In the Kitchen

Leon Ikenberry

Location

CFS

Week 1

Costs: depends on menu selection of their group

Brief Description of Course

Participants in this Exploratorium will cook a wide variety of foods each day determined by their interests. Students will learn some of the basics of cooking including proper use of kitchen utensils and safety in the kitchen. We will explore the work of some well-known chefs. This course is designed for seasoned chefs and beginning cooks.

By the End of This Class You Will Know. . .

- Some basics of cooking that you maybe didn't already know
- How to read and follow directions!!!
- Measurement of dry and liquid ingredients
- Collaborating with others to produce a fine edible product
- Taking responsibility for seeing a project through including clean-up.

Activities During the Week

On the first day of class we will all cook various different recipes of Leon's choosing. On that day we will also plan for what individual groups will cook for the rest of the week. A field trip is always possible, though not planned at this moment. We will also watch a few episodes of various cooking programs from the Iron Chef to Good Eats. We will have a student Iron Chef battle of some form on our last day of cooking.

Before You Sign Up, Make Sure You Know...

Realize that lunch for the week could be prepared by themselves.....YUM. Cost will vary depending on menu chosen. Kids will need to bring in special supplies for what they plan to prepare. The basics should be provided.

Smokies: Hiking and Poetry

Henry Walker

Location

Walker Cabin, Gatlinburg, TN

Walkercabin.com

Week 1

Costs

\$150

Brief Description of Course

We will leave CFS about 9:00 a.m. Monday, May 21, and return by 3:00 p.m. Friday, May 25. On the way to Tennessee we plan to visit Max Patch, near the Tennessee/North Carolina border. Max Patch is a high grass bald with great views. Expect an 11-mile hike to Mt. Cammerer, some shorter hikes, a lot of writing and sharing (and drawing if you'd like), a lot of learning about the Smokies--the science and the history.

By the End of This Class You Will Know. . .

- Basic geology, botany, zoology, and history of the Smokies
- How to write effectively about experiences in nature

Activities During the Week

A long drive up to Gatlinburg and back from there, an 11 mile hike to Mt. Cammerer, writing and hiking every day, an hour silent time each day for writing, playing in the creek, reading, napping. . ., playing "Bear" most evenings, sharing your writing and art every day in the Smokies.

Before You Sign Up, Make Sure You Know...

- Open only by application.
- This Exploratorium is filled.
- Check for \$150 made out to CFS.
- Scholarship aid is available; just ask.

So You Want to Start Your Own Business?

Mig Little Hayes

Location

Downtown Durham

Week 1

For Third and Fourth Years Only

Costs

Lunch money

Brief Description of Course

When I was in middle school, my friends and I were always dreaming up ways to make a little money by starting a small business....lemonade stands, painting wooden chairs, dog-walking. Well, now is your chance!! Did you know that downtown Durham is one of the hottest spots in the country for small business development? There are over 70 startup companies in downtown Durham and this area will be our classroom for the week! We will visit as many businesses as we can and talk to these creative entrepreneurs--techies, artists, restaurant owners, architects, gamers--it will be a blast! On the first day, you will learn how to create a business plan and by Friday, you will be "pitching" your new business to the rest of the class. Who knows, you just might be successful!

For Third and Fourth Years Only

By the End of This Class You Will. . .

- Know many of the startup businesses in American Underground (called "Innovation Revolution")
- Discover what types of businesses interest you the most
- Learn how to create a dynamic business plan
- Get a chance to pitch your business plan to the class!

Activities During the Week

We will spend the week in the downtown Durham area (we have a conference room in Diamond View—overlooking Durham Bulls Ballpark for 2 of the 5 days!). We will do a lot of walking around downtown, meeting with business owners, learning from the pros, observing busy businesses in action, and working hard on our creative business pitches on the last day of class. Should be great fun!

Before You Sign Up, Make Sure You...

- Are eager to learn how people just like you start successful businesses...
- Know how to behave in business settings...
- Are attentive, engaged and polite, even when certain businesses are not interesting to you...
- Have a great attitude and a spirit of adventure...
- Support your peers in their work and as they present their small business on the last day

The Diamond: Our National Treasure

Teacher: Dave Donaldson

Location: CFS

Costs: \$20.00 - \$30.00

Week: 1

Brief Description of Course

This is a class for those who love the game of baseball or for those who want to learn about the game. This is a chance to be completely involved with the game all day for five straight days. Throughout this five day course of study, there will be chances to practice skills; play the game; play offshoots of the game; study, explore, and experience its history, its personalities, its power of entertainment; and to watch the game being played. This session will allow you to appreciate and understand the game that Americans were born to love.

By the End of This Class You Will Know. . .

- The origin and evolution of baseball
- Baseball personalities and events
- How to score a baseball game
- The experience of playing baseball and related games and activities

Activities During the Week

During this Exploratorium, time will be spent listening to lectures, recitations, and stories; discussing viewpoints and interpretations; independently researching; playing baseball and related games (such as stickball, stoop ball, and wall ball); practicing baseball skills by doing drills (such as pepper, run down, rapid fire throwing, figure-8's); playing word and trivia games relating to the game of baseball; watching a movie or two about baseball; watching a live game (the \$20.00 - \$30.00 covers admissions and a snack).

Before You Sign Up, Make Sure You Know.....that you'll be involved with baseball all day, every day, for five days. You'll wind up loving baseball even more than you do now OR you'll get sick and tired of it! You should bring a quest for knowledge, an enthusiastic attitude, and a baseball glove (if you have one)!

World Religions

Jim Henderson

Location

CFS

Week 1

Costs

None

Brief Description of Course

Students in this Exploratorium will get to visit a variety of places of worship in the Triangle area – at least one each day. We will learn about, and visit with, Hindus, Buddhists, Jews, Christians, Muslims, Sikhs and perhaps even people of other faiths, or of no faith. Students will keep journals to record their observations, experiences, and thoughts. Discussions will emphasize both commonalities and distinctive differences in the various approaches to spiritual life that we will encounter. Students who are part of a religious tradition, and students who are not, are both welcome in this Exploratorium, which will help us all better understand the connection between religion and culture, faith and imagination, history and experience.

By the End of This Class You Will Know. . .

- What people in our area hold as sacred
- How people seek to come into relationship with that sacredness

Activities During the Week

Visiting nearby places of worship

Talking with people who work and worship there

Before You Sign Up, Make Sure You Know...

- Be sure you are open to engaging other traditions than your own

3D Creations

Jamie Charles

Location

CFS

Week 2

Costs

None

Brief Description of Course

In this class you will have the opportunity to work with different types of materials to create original sculptures. We will use materials ranging from wire, foil, wood and found objects. Students will decide which medium to use and plan and implement their projects. Imagination is a key component of this class! Students will get some of their inspiration from looking at the works of a variety of famous sculptors like Alexander Calder, Henry Moore and Rodin.

By the End of This Class You Will Know. . .

- Sculpture terminology
- How to work with a variety of materials
- How to incorporate materials into a complete sculpture
- How to use sculpting tools and other art supplies

Activities During the Week

Students will begin by developing a plan for a 3-Dimensional project. After gathering materials for this project, students will work to bring their ideas to life! Each day students will be expected to work with different materials to create sculptures (wood, recycled objects, wire, assemblage project).

Before You Sign Up, Make Sure You Know...

Please sign up if you enjoy making three-dimensional objects and are serious about investing your time into making your artwork.

Diamonds Are A Girl's Best Friend

Teacher: Dave Donaldson

Location: CFS

Costs: \$20.00 - \$30.00

Week: 2

This class is *girls only*

Brief Description of Course

C'mon girls – it's your turn. Here is an opportunity for girls to learn about baseball and how to play it as well as to discover the influence of women on the game. Throughout this four day course of study, there will be chances to practice skills and play the game. The rules of the game will be discussed as well as how a game is scored. Time will be provided to research and study the women who have played the game or who have had an influence on the sport. If possible, there will be a trip to watch a professional or collegiate baseball game. **This class is *girls only*.**

By the End of This Class You Will Know. . .

- The basic skills of throwing, catching, hitting, and base running
- Drills to help you practice the skills of the game
- The origin and evolution of baseball as it pertains to women
- Female baseball personalities: events, stories, and poems about them
- How to score a baseball game
- The experience of playing baseball and related games

Activities During the Week

On the field - learning and practicing how to throw, catch, and hit – performing skills drills - playing baseball - playing baseball inspired games like stoopball, wall ball, and stickball. *In the library or computer center* – researching baseball personalities and events

In the classroom – listening to stories about women who have played or influenced the game; discussing aspects and strategies of the game; learning and practicing how to score a game; watching the movie: “A League of Their Own”

At the ballpark - if possible, going to a collegiate or professional baseball game (depends on scheduling and playing times) – the \$20 - \$30 covers admission and snacks

Before You Sign Up, Make Sure You Know.....that you'll be involved with baseball all day, every day, for four days. You may end up hating the game but you may fall in love with it too! You should be ready to practice and play. You should be open to learning about the game's history and its nuances. Bring an open mind, a thirst for knowledge, and a baseball glove (if you have one).

Digital Photography

Amelia V.B. Shull

Location

CFS, Countryside, Downtown
Durham

Week 2

Costs

\$20

Brief Description of Course

This Digital Photography workshop will have you documenting and photographing landscapes, portraits, architecture, abstracts, and each other! Learn the basics of composition, how to use your digital camera, and how to tweak photos with digital software.

By the End of This Class You Will Know. . .

- What the main buttons and bobbles mean on your digital camera and how to use them
- How to compose images that are artistic and expressive
- How to use Photoshop and other digital editing programs to improve or tweak your images
- How light works when recording images

Activities During the Week

We'll take 2 day trips, and then return to CFS to upload our images. On Thursday and Friday we'll be working with our enormous amounts of photos- cropping them, distorting them, fixing them...and then we'll print them out and have a mini art show! You'll be able to keep your images in a small photo album when you're done.

Before You Sign Up, Make Sure You...

...have a digital camera! If your family doesn't have one, please try to borrow one (maybe from CFS's library?) for the week. You should have some familiarity with a computer in general, and have a really positive attitude and be willing to experiment! You will be primarily working on your own art and images. It's also important to be a good listener, as you'll learn a lot and then show what you know!

Exploring Deep Space

Jim Rose and Rainie Heck

Location

CFS and NRAO in West Virginia

Week 2

Costs

\$40*

Brief Description of Course

How do we know how the Universe began? What do we know about its future? Is there life elsewhere in our galaxy? What does deep space sound like? These are questions we will explore during this hands-on investigation of space science, astrophysics and radio astronomy. You will visit the National Radio Astronomy Observatory and, during an overnight stay, use a 40 foot radio telescope to listen to deep space signals. Observatory staff will then work with your team to analyze the data and solve a research problem. We will spend a second night camping in West Virginia and see spectacular Appalachian mountain attractions.

By the End of This Class You Will . . .

- Use a working telescope to investigate deep space
- Learn about the search for extraterrestrial life
- Make a scale model of the Solar System
- Explore the spectacular state of West Virginia

Activities During the Week

We will be traveling three days and two nights in West Virginia. We will spend 24 hours at the National Radio Astronomy Observatory in Green Bank, where we will participate in the Radio Astronomer for a Day workshop. We will also see and visit some of West Virginia's spectacular natural resources.

Before You Sign Up, Make Sure You ...

- Are ready for a lot of travel during the week
- Are willing to carefully listen to and follow instructions at the Observatory
- Like camping and have access to camping gear like a sleeping bag and a tent

*As always, financial assistance is available on request. Please ask if the cost would pose a hardship or be prohibitive.

"Flour" Power: Baking in the Kitchen

Mary Deborah Englund

Location

Middle School Kitchen

Week 2

Costs

about \$5 to \$10--purchasing ingredients as we cook

Brief Description of Course

Have you noticed that there's never enough time during cooking classes to make those dishes that take awhile--especially breads, baguettes, cakes, pies, cobblers, sticky buns. . .you get the idea! This Exploratorium is devoted to those types of baked goods. We'll make yeast breads, quick breads, pie crusts (filled with fruits, cremes, even veggies!), cheesecakes, chocolate cakes, carrot cakes. With four days in the kitchen, we'll plan, prepare, cook, and sample!

By the End of This Class You Will Know. . .

- How to read a recipe
- About rising agents (so what's the difference between baking powder and baking soda and how in the world can yeast "die?!")
- Breadmaking, pie making, cake making techniques
- How to clean up a kitchen

Activities During the Week

During this four-day Exploratorium we will bake! Each day we will have a theme (e.g. breads or pies or cakes or some type of baked goods). You'll work in groups choosing a recipe and then preparing your item. Most days we'll have a guest chef who will spend some time with us, teaching technique. We'll learn about such things as kneading, handling dough, using yeast, and different types of flour. You'll also be responsible for preparing a grocery list of items you'll need, and then dividing that list up among group members. Expect to grocery shop one or two days for certain flours, fillings, and other incidentals. With a little bit of luck, we might be able to visit a local bakery and see a professional baker or pastry chef at work! Be adventurous (Anadama bread is made with creamed corn!); be able and willing to stay on task and cook; be interested in working with a group to choose and prepare a dish; and be aware that we'll be baking with flour and dairy products regularly. (**See me if you have allergies before signing up.**)

Before You Sign Up, Make Sure You Know...

1. You should be interested in working with two or three other people daily to choose and prepare dishes 2. You'll be working with wheat flour and dairy regularly and 3. Clean-up is part of life and certainly a part of the cooking experience.

Geocaching

Lisa Joyner, Ben Alexander, Nick Tansey

Location

CFS, local Geocaching sites

Week 2

Costs

Brief Description of Course

Since the invention of GPS-enabled devices, Geocaching has become wildly popular in America and all over the world (even Antarctica!). In this Exploratorium, you be introduced to this new high-tech “sport.” You will use a GPS-enabled device to search and find clues on the CFS campus and other local cache sites. You will both devise and play in elaborate scavenger hunts that depend upon your ability to read and find GPS coordinates. On the third and fourth days, we will take our skills out into the world and Geocache our way out of local sites created and maintained by other Geocachers. Be forewarned: it’s addictive! **An added bonus: Nick Tansey and Ben Alexander will be serving as the Teaching Assistants for the class.

By the End of This Class You Will. . .

- Learn about the wide and ever-expanding lexicon specific to geocaching—terms like Travelbug, Hitchhikers, Muggles, ROT13, and Ground Zero
- Participate in CITO (Cache In Trash Out), an ongoing environmental initiative supported by the worldwide Geocaching community
- Place and find a collection of Geocaches on CFS campus
- Explore some local Geocaching hotspots

Activities During the Week

During this four-day Exploratorium we will spend our first day on campus creating, hiding, and searching for a series of Geocaches on campus. On Wednesday and Thursday we will venture out into the world to visit local Geocaching treasure troves. We will hunt for cache booty at a variety of difficulty and terrain ratings. We might even end up at Maple View Farm one day for ice cream.

Before You Sign Up, Make Sure You...

Enjoy working with others...

Like to be outside, rain or shine...

Have a great attitude and a spirit of adventure...

Don't get easily frustrated or mind getting your shoes wet....

Don't spoil surprises if you discover them in advance.....

Can share devices with others.....

Plan to stay hydrated and slathered in sunscreen...

Imaginative Adventures:

Journal Writing & Dance

Annie Dwyer & Emily Chamberlain

Location

Center Building, Duke Gardens or
Ayr Mount

Week 2

Costs

\$15

Brief Description of Course

This memorable experience will explore the ideas of weaving connections within ourselves, with other dancers and writers and with the natural world. Emily Chamberlain (taught in the MS for 15 years) will travel from Seattle to teach this once in a lifetime special exploratorium with Annie. We will explore dancing and writing each morning. We will look at how dance, journal writing and collage can be used to mark special moments in our lives. We will weave those moments and the understandings that come from them into dance studies and artwork, which we will keep to mark and remember the experience.

By the End of This Class You Will Know . . .

- beginning and intermediate dance skills
- ways to translate images from dance to writing to art
- a renewed love of journal writing
- a deeper connection with yourself as a dancer and choreographer
- an understanding of your creative process

Activities During the Week

During this four day Exploratorium you will be exploring dancing and journaling and more journaling and dancing. We will be writing and reflecting with lots of time outside in the natural world. There will be a trip to either Duke Gardens or Ayr Mount in Hillsborough to dance and journal on Friday. We will be dancing outside and inside, taking photographs, creating a series of collages, sharing and laughing as well as creating gestures and dance motifs and teaching them to each other.

Before You Sign Up, Make Sure You Know...

Please bring a strong focus, energy and a positive attitude. You will need experience with dance and journal writing in the Middle School (talk to Annie if you are new to MS). **Open to first, second and third year journal writers, dancers and adventurers! We are hoping to have a mix of boys and girls! We welcome students who have taken this Exploratorium to take it again! We would love to have one or two fourth year assistants.** You will need dance clothes, a personal journal, pen and comfortable shoes for wandering in the woods. QUESTIONS??? Talk to Annie.

Is There an App for That?

Ian Marks with Joanna Sisk-Purvis

Location

CFS

Week 2

Costs

None

Brief Description of Course

Do you enjoy playing arcade or adventure games on your computer or an i-Device? In this Exploratorium, we will explore the world of app creation. Once we've played around with a few examples, we will use various tools to program our own game apps that will run in a web browser or on an iOS device! We will upload our masterpieces to a website where they can be shared with the world.

By the End of This Class You Will. . .

- Have a game YOU created to share with family and friends
- Understand the different types of apps and how they are put together
- Have the tools you need to make more apps on your own

Activities During the Week

Most of this four-day Exploratorium will be spent at computers, though we will take active breaks to let out some energy! We will spend part of the first day exploring the world of apps, then get right into programming our own, alone or in pairs. At the end of each day, we will share our work with each other. On Day 4, we will put all of our completed projects on our own website, and port some of the games to iOS devices.

Before You Sign Up, Make Sure You...

- Enjoy working with computers...
- Will be okay sitting and doing (fun) work for most of the day, with only a little time to run and play...
- Work well alone or with one other person...
- Don't require an adult standing over you constantly to focus on a project!

North Carolina History

Jim Henderson

Location

CFS

Week 2

Costs

None

Brief Description of Course

Students in this Exploratorium will explore aspects of the rich history of our state. We will learn by going and doing. The varied experiences of the Native Americans, pirates, colonists, soldiers, enslaved people, farmers, and freedom riders who called North Carolina home will come to life for us. We will visit the North Carolina Museums of History and Natural Science in Raleigh, tour historic Hillsborough (You'll be amazed by what is and was there!), go to the Civil Rights Museum in Greensboro, and walk around Old Salem. Plan to keep a journal and bring a lunch and travel food each day.

By the End of This Class You Will Know . . .

- have a better idea of the different kinds of people who made our state
- know how CFS is part of NC history

Activities During the Week

- visiting museums and historic places
- talking with historians who understand what life used to be like

Before You Sign Up, Make Sure You Know...

- know that you will be bringing your own lunch every day
- make sure that you are comfortable riding on a bus

Rock Climbing

Flannery Lynch and Anna Lynch

Location

CFS and Vertical Edge Climbing Center

Week 2

Costs

\$10 for a field trip

Brief Description of Course

We will learn about rock climbing, belaying, slacklining, and how to do these things safely. In addition, we will also use a low ropes course to build trust and focus on the importance of teamwork. This course is for anyone of any level who is interested in rock climbing and learning more about it.

By the End of This Class You Will Know. . .

- The basics of rock climbing technique
- How to set up a ratcheted slackline
- How to belay
- How to climb safely

Activities During the Week

We will primarily use the CFS climbing wall and a low ropes course, but at the end of the week we will take a field trip to Vertical Edge Climbing Center. We will also learn some basic geology by learning to identify types of rocks. We will look at the different styles of climbing on different types of rock. We will also watch two movies during the week for inspiration and information.

Before You Sign Up, Make Sure You Know...

Rock climbing is an extremely safe sport when trust and communication are strong. Participants in this Exploratorium will be required to wear helmets. Bike helmets and skateboarding helmets are just fine; the kids will also need sneakers to climb. We will provide harnesses and climbing shoes when needed.

Science and Science Fiction

Robert Bittle

Location

CFS Annex

Week 2

Costs

None

Brief Description of Course

WARNING: Some of the science fiction movies we will watch are scary.

WARNING: A willingness to read and write a lot everyday is expected for this class.

This Exploratorium is for anyone who would like to enjoy some great science fiction movies, and learn something about the real scientific issues that inspire science fiction writers. Each day we will research real science issues of the 20th century, including global warming, nuclear technology, artificial intelligence, and evolution. Each day we will view some excellent science fiction movies that are related to those issues.

Movies: Matinee (PG), iRobot (PG-13), Contact (PG), and Godzilla (PG-13), and an episode from the original X Files television series of the 1990s.

By the End of This Class:

- You will learn about global warming, nuclear technology, artificial intelligence, evolution, and other related science topics.
- You will learn why these topics are sometimes the source of worry to people.
- You will develop a greater appreciation of science fiction.

Activities During the Week

Daily schedule. From 8:30 – 12:00 each morning you will be involved in focused research on a particular topic (global warming, nuclear technology, etc.) You will have several guided research assignments to complete for each topic. You will be reading and writing a lot! After lunch and a short lunch break we will begin the movie of the day and complete the movie by 2:30 pm. From 2:30 to 3 pm we will have a discussion about the topics and a final writing exercise.

Before You Sign Up, Make Sure You Agree to:

Arrive to class each day willing and eager to read and write.

Arrive to class each day with notebook and pencil.

WARNING: Some of these movies are **SCARY**, please keep this in mind as you decide whether to sign up. Also, some of these movies are older, or in black and white, or with special effects that are a little on the cheesy side. If you have a low tolerance for such movies you might not want to sign up for this course.

Sharing the Gift of Reading – Service with Younger Children

Nancy Parsifal

Week 2

Location

CFS & Forest View School

Costs

10.00 for lunch

Brief Description of Course

We will have the opportunity to offer service to younger children in Kinder-garten and First grade who need help with their reading and basic skills. Students will practice the basics of phonics and reading skills. We will then take what we have learned to Forest View and spend mornings working with and reading to the children, and in whatever other ways teachers would appreciate help. We will have lunch with the children in their cafeteria. In the afternoon we will continue to work with our designated teacher and new student friends.

By the End of This Class You Will Know. . .

- Some basic terminology
- Some basic reading skills
- How to help younger students read
- How to mentor younger children

Activities During the Week

We will learn and practice some basic reading skills. We will also create projects to help make reading fun for the struggling younger students. We will then take what we learn and work with elementary students at Forest View. We will also work on any projects the teachers may have for us.

Before You Sign Up, Make Sure You Know...

Students will bring their own snack each day, as well as a water bottle. Wear comfortable but suitable clothes to appear in public as you are representing the school (No spaghetti strap tops, flip-flops, or short shorts please). Bring enthusiasm, joy and a willingness to serve others. 😊

Tour de France

Françoise Heyden and Coleman Whittier

Location

CFS campus and Duke Forest

Week 2

Costs

\$15 to cover t-shirt and French lunch

Brief Description of Course

Get ready to bike and cook your way around France on a virtual *Tour de France* right here at CFS! We'll bike and compete in our own version of the time trials and team challenges every day, and if all goes well, take off to Duke Forest on our last day for a picnic by the water. While we prepare and enjoy some French lunches (second and fourth days,) we'll practice some useful French phrases (for ex, what's that *maillot jaune* they keep talking about?) If you're worn out from biking, you can work on your *Tour de CFS* t-shirt that you'll get to keep as a souvenir.

By the End of This Class You Will Know. . .

- All about the Tour de France, its history, heroes, routes, highs & lows of recent races, etc
- Bike repair, safety and maintenance
- How to cook (and talk about !) yummy French food
- Common expressions and phrases related to the Tour and food (ie "c'est si bon!")

Activities During the Week

We'll start each day with a bike repair/safety lesson before riding off on our own CFS version of the real Tour. We'll learn useful French phrases, Tour trivia and watch some video footage from past Tours – enough to play some games like jeopardy at the end. We'll also make our own *maillot jaune* t-shirt to keep. If you like to cook, sign up to make something like the all-time favorite *crêpes*, *quiches*, *citron pressé*, *salade niçoise*, or *baguette* sandwiches – suggestions are welcome and please let us know if you have any dietary restrictions.

Before You Sign Up, Make Sure You Know...

You will need to bring a mountain bike, helmet and water bottle (sunscreen and insect spray will also come in handy.) Please know that you will only be allowed to bike during designated class time. Safety is our main concern which means no shoes, no helmets, no riding. *C'est la vie! That's life!*

Yoga & Ballet Conditioning Mini Retreat

Sherry Moore-Mott

Location

Upper School Meeting Hall and outdoors through the campus.

Week 2

Costs

\$10

Brief Description of Course

Get ready to learn and practice several styles of yoga! We'll do yoga practices daily, including the asana (postures) practice, as well as learning about a yogic lifestyle through craft making, poetry writing, viewing documentary clips and making our own personal "how to do yoga" illustrated fun books. Additionally, we'll do a basic ballet conditioning workout, where we'll learn and use the most simple, elemental steps to strengthen our body, posture, stamina and focus: NO ballet experience is necessary!

By the End of This Class You Will. . .

- All about the different styles of yoga and how to structure and sequence your own practice.
- How to name and do poses. How to do a yoga practice that is **respectful** of safe alignment as well as its overall meditative focus.
- About the history of yoga and its passage from India to modern day yoga practices here in the West.
- The original Sanskrit names of the asanas (poses) as well as the "eight limbed" philosophical yoga path.
- How a yoga practice can help you in many other life areas.
- How to do turn out: first through fifth positions in the feet as related to ballet steps, as well as other ballet basics in each of these positions (such as demi-plié, plié, coupé, passé, rond de jambe, relevé, attitude, and tendu). It is these steps that we will use within our ballet conditioning workout.

Activities During the Week

We will spend our time in active (*fitness based*) and passive (*i.e. restorative Yin*) asana practices, complete with final relaxation (*savasana*) at the end of each practice. We'll also watch yoga related documentaries, do reflective journaling, make our "how to do yoga" fun books, and do some poetry writing and craft making. Further, we'll do ballet conditioning workouts.

Before You Sign Up, Make Sure You...

- Have comfortable clothes that you allow you to move freely, as well as a water bottle (sunscreen, sunglasses and insect spray will also come in handy), pen, pencils, a blank journal, and lunch each day. Note: There is no need for ballet shoes to do the ballet workout. Optional: bring a light blanket and/or pillow for final relaxation.

4th Year Trip

Leon Ikenberry, Robert Bittle, Christel Butchart

Location

CFS and Hendersonville, NC

Week 3

Costs

\$50

Brief Description of Course

Our goals on our 4th Year trip are threefold: First, to provide opportunities for students to engage in activities that access their rich internal strengths as a resource for the challenges they will face as they leave Middle School and move on to new opportunities. Second, it is a tradition for CFS students to participate in service work on outings. It is especially important for 4th Years to experience the impact they already make on the world. Finally, we will provide an environment in which our soon-to-be graduates can catch hold of their last days together as middle schoolers, embrace the gifts and challenges they have presented to each other, and prepare internally for the final Meeting for Worship on June 8th.

By the End of This Class You Will Know. . .

- The value of the time you have spent in Middle School
- What you and your classmates have learned about your life journeys thus far
- The pride and sense of accomplishment in facing a white water rafting trip

Activities During the Week

We will head to Kanuga Conference Center in Hendersonville, NC for two days and one night. While there, you will have a number of challenges both individually and as a group. We will depart very early Monday morning (before school begins), and return Tuesday afternoon. Activities may include a night hike, orienteering, a high ropes course, white water rafting, and a meeting for worship with attention to your experience in the Middle School. This trip includes meals and accommodations in supervised cabins. Once we return, we will spend Wednesday on campus engaged in a service project to give back to the Middle School, and a chance to view your iMovies. This final Exploratorium is the culminating experience of your Middle School journey. Be prepared for an intense, highly engaging experience.

Before You Sign Up, Make Sure You Know...

All 4th Years are required to participate and should not register for other Week 3 Exploratoriums.

Altars, Shrines, and Keepsakes

Lisa Joyner

Location

CFS, Scrap Exchange, Ornamentea

Week 3

Cost: \$35

Brief Description of Course:

Do you ever collect cool objects or art materials, and then not know what to do with them? In this Exploratorium, we will build art from all the random doo-dads, notes, shells, keepsakes, jewelry, totems, and mementos that we've been gathering over the course of our lives. We will start by looking at sample artworks from artists who work with junk and small objects. We will discuss dream symbols, Jungian psychology, collage, mixed media forms, Joseph Cornell, Robert Rauschenberg, totems, hexes and primitive religions. After that, we will build our own mini-shrines and altars. We'll use nail guns, glue and saws to build our objects' custom wooden homes. We will then organize our keepsakes into logical story collections so that we can enjoy them for years to come. If you don't have any keepsakes to organize, don't worry! We'll have ample time to venture into both downtown Durham and the local countryside to gather cool objects. On the third day, we will travel to downtown Raleigh for an art class at Ornamentea. As an additional treat, local artist Ashley Brodie will accompany us on some of our artistic adventures.

By the End of This Class You Will Have:

- learned about the ancient art of shrine-creating and altar-building
- created your own personal shrine to showcase your special objects
- designed jewelry for yourself or a gift for someone else
- decorated and collaged a variety of objects using Decopatch paper, glues, and resins

Before You Sign Up, Make Sure You...

- Enjoy making art ☺
- Have a creative vision for ways to display your keepsakes ☺
- Don't mind spending \$20-\$30 on materials + lunch in Raleigh on Wednesday ☺

Celebrate the 10 Year Anniversary of our Afghan Sister School

Françoise Heyden, Millie Azuriah, and Ellin Porterfield

Week 3

Location

CFS campus, field trips TBD

Costs

Lunch money for authentic Afghan meal

Brief Description of Course

To celebrate the tenth anniversary of the Afghan Sister School Partnership, we're creating a mixed media presentation of our Afghan-related activities at CFS and we need your help to film, edit and compose how we learn about Muslim life, write to our pen-pals, etc. Think of this Exploratorium as a way to relive the fun you had in the Discovery Groups in Lower School, engage in discussions of what it means to be Muslim, dramatize pen-pal exchanges, all while creating a mixed media presentation that shows what we do at CFS to support our sister school. On the last day, we'll invite members of the Afghan Sister School Partnership committee to see what we've created and to enjoy an authentic Afghan lunch with us.

By the End of This Class You Will. . .

- Appreciate what it's like to be a Muslim from our local Muslim guests
- and engage in theater techniques to re-enact sister school activities
- all while creating a multi-media presentation for the 10 year anniversary celebration

Activities During the Week

We will start our Afghan journey immersing ourselves in Muslim culture by talking with Muslims from our community about what it means to live their faith, pray five times a day, wear a veil, observe Ramadan; to break down common stereotypes; to enjoy Rumi poetry, do some beautiful henna, and answer questions you might have. We will then learn some theater techniques to re-enact what it's like to write and receive a letter from your pen-pal, taking turns acting and filming. On our last afternoon, we'll invite the members our Afghan Sister School Partnership to see what we've learned, hopefully show them our mixed media presentation and have a real Afghan lunch with them.

Before You Sign Up, Make Sure You...

Are ready to explore the Muslim way of life;

Like being creative as you act and film;

Enjoy sharing with our Muslim guests and Sister-School volunteers

Cooking with Kindness

Mary Deborah Englund

Location

CFS, MS Kitchen

Week 3

Costs

About \$5 to \$10 – purchasing ingredients as we cook

Brief Description of Course

Normally, the focus of our efforts in the kitchen is on preparing dishes we want to eat. In this Exploratorium, however, we'll be cooking for others. We'll plan who we might want to share our efforts with--it might be a member of the community who is ill. . .or a friend who's feeling down. . .or a family member or teacher we'd like to say thanks to with a gift of food. We'll then work in teams to find a recipe that is fitting, prepare a suitable dish, and package our product for delivery. And, of course clean up the kitchen when we've finished.

By the End of This Class You Will Know. . .

- How to choose dishes to prepare for others
- How to read and follow a recipe
- Kitchen techniques (e.g. measuring, combining ingredients, chopping/dicing, sauteeing, baking)
- How to package and deliver food
- How to clean up a kitchen

Activities During the Week

During this three-day Exploratorium, we will focus our cooking efforts on serving others. There are people in our community who regularly help others (Think: parents, teachers, Shop guys, Center folks), and there are folks who are in special need (Think: folks who are ill, injured, having a difficult time). We will work in groups creating a list of people for whom we'd like to cook and then we'll prepare dishes or meals for them. Next, we'll package up our offerings, create cards, and make deliveries. If we have leftovers, we might even be able to sample our efforts, but eating what we make is NOT a requirement.

Before You Sign Up, Make Sure You Know. . .

- You will receive up to 5 Service hours for this Exploratorium
- You will be working in groups of 2 or 3 people as you choose and prepare dishes
- That clean-up is part of life and certainly a part of the cooking experience

Cooperative Games and Activities

Dave Donaldson

Location:

CFS

Week 3

Costs:

None

Brief Description of Course:

"THE THRILL OF VICTORY AND THE AGONY OF DEFEAT"

This famous line from the successful ABC television show "The Wide World of Sports" was the way that many people viewed games and sports: win or feel miserable. But for most of us who do not play at a world class level, games and sports can and should have a much different motto: *"PLAY FOR THE SAKE OF PLAYING."*

This class will present a number of games, activities, and challenges which can only be played or accomplished through cooperation between members of a group. The activities in this class involve cooperation, acceptance, inclusion, and fun and promote self-worth. The concept is to develop positive interaction between people and to play simply for the sake of playing and having fun. A few of the activities do involve a bit of competition but it is the playing of the game that is stressed – not the victor. You win by enjoying the activity.

By the End of This Class You Will Know. . .

- How to play with rather than against your classmates
- How to play games and experience fun without competition
- How to cooperate to achieve success in a variety of active group games and activities
- How to work together to solve challenges while playing quiet games
- How to perform partner gymnastics skills
- How to face physical and mental challenges and conquer them through teamwork

Activities During the Week

Active Group Games...Group Challenges... Quiet games...Partner Gymnastics.....Group Balancing....Parachute Activities Challenge Course – at CHES, the students there will lead the games class through the course that has been developed throughout their playground

Before You Sign Up, Make Sure You Know...

- that you should bring an open mind, an adventurous spirit, energy, and a water bottle!

Growing Goodness

Jon Lepofsky

Location

CFS; a local farm; some grocery stores

Week 3

Costs

None required

Brief Description of Course

Do you like getting dirty? Do you like learning about how food grows? Do you want to learn more about how and why organic farming works? If so, this Exploratorium will be a great way for you to learn about organic farming by actually working on an organic farm. In addition to working on a farm in the morning, you will learn what makes an organic farm organic, why some choose to grow organically and how organic farming is related to the ways in which food gets to people for eating.

By the End of This Class You Will. . .

- Learn about the basic elements of an organic farm and what makes organic agriculture “organic”
- Understand why people choose to farm organically, what other options there are and how those choices affect people who buy food in grocery stores
- Learn ways you can participate in organic agriculture even if you aren't a farmer

Activities During the Week

During this three-day Exploratorium we will spend the mornings working on an organic farm. Our activities could include weeding (by hand!), harvesting, preparing food for market or planting. We will eat lunch at the farm (maybe even getting to sample the fruits of our labor). We'll also get a tour of the farm and learn how it is part of a movement to grow organic food across the world. In the afternoons, we will visit grocery stores to learn about how food gets distributed, compare the prices of food products and learn why stores sell organic (or not). We might also watch selections from a documentary about farming and the food system and eat some organic ice cream.

Before You Sign Up, Make Sure You...

- Enjoy working with others...
- Like to be outside, rain or shine...
- Have a great attitude and a spirit of adventure...
- Don't get easily frustrated...
- Plan to stay hydrated and slathered in sunscreen...

Gutted Books

Ida Trisolini

Location

Ida's Room

Week 3

Costs

None

Brief Description of Course

I've worked a lot with bookmaking, and specifically with taking old book covers and transforming them into new beautiful books. That's basically what we'll do in this class. However, we will have a more specific focus than that; we will be trying to capture the things we most "know in our gut" and put them into these "gutted" book covers. We'll use poetry, collage, and painting to create representations of what we most know.

By the End of This Class You Will. . .

- Learn how to bind new pages into an old book cover
- Learn some new art techniques including collage, abstract painting, paper layering, paper pulp construction
- Have a beautiful handmade book of your own art and writing

Activities During the Week

During this three-day Exploratorium we will work, work, work on a variety of craft and art techniques all day long, every day. You will have what will feel like unlimited time to create, create, create. Of course, I'll teach a few techniques, but mostly, you will have time to bring to reality your most creative vision, and bring to reality the things you are most sure of deep in your self. We will do at least two specific writing activities to help you generate poetry to include in your work. Please bring snack and lunch every day.

Before You Sign Up, Make Sure You...

- Enjoy working with others...
- Like to lose yourself in the creative process...
- Are able to focus for long periods of time on one project...
- Are eager to learn a couple of new craft techniques...
- Have a great attitude and a spirit of adventure...
- Don't get easily frustrated...

Instrument Boot Camp

Joanna Sisk-Purvis

Location

CFS

Week 3

Costs

\$25 for rental and materials

Brief Description of Course

Have you always wanted to learn to play a specific instrument, but haven't had the time for lessons? Or maybe you're afraid to commit long-term without trying it out first. If so, this is the Exploratorium for you! Over three days, you will learn the basics on one instrument of your choice, which will be provided to you on Day 1. With the help of beginner method books, videos, and Joanna, you will learn to play some tunes – and maybe even have a great start to a lifelong hobby! See below for the list of possible instruments.

By the End of This Class You Will. . .

- Know how to make a sound (hopefully a pleasing one!) on an instrument that is completely new to you
- Be able to play a few basic tunes on that instrument
- Know if you would like to continue to learn that instrument over the summer or next school year
- Make a completely unconventional and silly music video

Activities During the Week

On Day 1 you will receive your instrument, chosen ahead of time from the following list: Flute, Clarinet, Saxophone, Trumpet, Trombone, Violin, Acoustic Guitar, Piano. You will work with Joanna to find instructional materials and get your first sounds out of the instrument. By Day 2, we will try playing some tunes as a group, with individual practice in between. Day 3, we will use your new skills to make a silly video!

Before You Sign Up, Make Sure You...

- Really want to try out a new musical instrument...
- Can keep trying your best, even when you get frustrated...
- Have a sense of humor...
- Don't require an adult standing over you constantly to stay motivated!

Learn to Play Bridge
Henry Meguid - Accredited Teacher
American Contract Bridge League (ACBL)

Location
CFS

Week 3

Costs
None

BRIEF DESCRIPTION OF COURSE:

Bridge is a card game invented over 100 years ago and still being played worldwide today by people of all ages and backgrounds. Unlike other games you quit playing because they no longer challenge you, Bridge is a game that offers continuous challenges, new situations to analyze every time you play, and complex language and skills to learn and master over a lifetime.

WHY BRIDGE?

In a 2005 study, researchers found that students who learned to play bridge performed better across the board on the Iowa Test of Basic Skills (ITBS) in reading, language, science, math, and social studies. They attributed their findings to the inferential reasoning and cognitive skills necessary to play the game. Bridge improves concentration, memory, social skills and teamwork, math, logic and analytical skills. It also teaches you to make plans and the ability to modify these plans based on mathematical probabilities. Above all, the game allows you to have fun and develop friends around the globe.

By the End of This Class You Will Know:

- How to play bridge.
- Participate in a fun duplicate game.

Activities During the Week:

- Evaluate the trick-taking potential of a bridge hand.
- Explore the language of bridge, and learn how to bid and respond to your partner.
- Play the hand and achieve the partnership goal.
- Compete in a bridge auction.
- Keep the opponents from making their contract.
- Score in duplicate bridge.
- Play a duplicate game at the end of class.

Scrapbook and Slideshow

Henry Walker

Location

CFS

Week 3

Costs

None

Brief Description of Course

We will make a scrapbook of this year to be kept in Henry's room with those from the last 10+ years. Plus we will make a slideshow to present to the middle school the last day before summer vacation.

By the End of This Class You Will Know. . .

- How to choose pictures to put together a scrapbook
- How to choose pictures to put together a slideshow
- Working collaboratively in a group
- Working with audio and visual technology to develop a presentation

Activities During the Week

Choosing pictures, gluing pictures, contact papering pictures. Slide show: choosing pictures and music, cleaning up, and doing a lot of sorting.

Before You Sign Up, Make Sure You Know...

Responsibility and creativity are vital. Plus, working with others is required so skills in getting along well with coworkers would be good

Who Uses Polynomials Anyway?

Kate Pendergrass

Location

CFS

Week 3

Costs

None

Brief Description of Course

Have you ever been in math class and wondered, “When am I ever going to use this?” During these three days we will explore how math concepts are used in everyday life whether you are a kid at a lemonade stand or a meteorologist. We will be engaging in virtual, online games, exploring math in nature, and even using math in the kitchen.

By the End of This Class You Will Know. . .

- Real-life applications of fractions, ratios and proportions, and linear equations
- How math plays a role in starting a business, saving and investing money, and predicting the weather forecast
- Math and science connections with water usage and dominant and recessive gene tracking
- Where math appears in nature and what patterns show up in the natural environment

Activities During the Week

We will be in the classroom, outside in nature, in the kitchen, and on the computer. Activities will include brainstorming and problem solving in groups, altering recipes to fit different servings, exploring the Fibonacci Sequence and the Golden Ratio in the natural world around us, and engaging in computer simulations.

Before You Sign Up, Make Sure You Know...

This Exploratorium is for students who love math and want to discover more connections to the real world. There will be much discussion and collaboration, so come with an open, curious mind ready to share your thoughts and ideas!