

BASIS Phoenix – Term Projects

March 10, 2017

Dear Students,

We are nearing the home stretch of an amazing fifth year at BASIS Phoenix, and it is time to choose a project for Project Week, which will be May 18-23 (with early release at 12:45 pm). These one-week courses are exciting and allow you to expand your educational scope beyond the traditional classroom setting.

With your parent, carefully read through the project descriptions on the following pages and choose your top 5 favorites. Complete the registration form as well as the liability waiver, if applicable. Return the completed forms to the Front Office by Friday, March 24th. Please note that some projects have grade restrictions due to specific requirements.

Term projects will be filled with preference going to students in the highest grade level. We will do our best to assign students to one of their top three choices. The project fee will be added to Smart for Charters once projects have been assigned. Any student who does not turn in a form will be assigned a project based on space available. **All students with an outstanding balance on their Smart account will be reassigned to a free project based on space available.**

Important: The projects are meant to be an enriching learning opportunity; however, students will receive a Pass/Fail grade at the end of the project period. The major criteria for evaluation are participation in the activities and cooperation with peers. In order to be promoted to the next grade, students have to receive a Pass grade on their project. Students who fail or are not present for part of their project are required to complete an assigned alternative project. Only students who fulfill the requirements of the alternative project will be promoted to the next grade.

Aliens, Androids, and Human Thought: An Exploration of Philosophy in Science Fiction

Have you ever read a book or watched a movie that made you wonder what life was really about? That made you question right and wrong, the nature of the world, the machinations of time, and the limits of human intelligence? If so, this is the project for you! Throughout the week we will read philosophical essays and science fiction short stories and comics, review philosophical discussions on YouTube, analyze sci-fi films*, and discuss the ways philosophy applies to fiction and life. To cap it all off, you'll incorporate philosophical ideas into your own short story, screenplay, or graphic novel.

Instructor: Morris
of students: 30

Grades: 8-12
Cost: \$5

Altered Books & Found Poetry

Altered books and found poetry are art forms that are based on existing work that is transformed by the artist's vision into something new and wonderful. Found poetry pulls words and phrases from written work in order to create poetry that comments on the work it's drawn from. Altered books take the idea of found poetry and expand it, taking books and changing them with ink, paints, sculpture techniques, fiber work, and any number of artistic work until they blossom into wholly new and striking pieces of art.



We will take our three days to study the art form of found poetry and altered books, then create some found poetry of our own, finishing by altering a book.

Instructor: Keller
of students: 15
Grades: ALL
Cost: \$30

Ancient Comedy

They say that laughter is the universal language. We'll see how true that is when we read and perform scenes from two of the most famous comic playwrights of antiquity, the Greek Aristophanes and the Roman Plautus. Together students will read, design costumes for, and perform scenes from a variety of their plays including *Miles Gloriosus* (The Boastful Soldier), *Nephalai* (The Clouds), and others. Students will see that just like today, people of all time periods loved to laugh. If students do not wish to perform, they may volunteer to be costume designers.

Instructor: Winnick
of students: 15
Grades: 8-12
Cost: \$15

Apps & Zerts: Cooking Basics Project

Every person should be able to cook or make at least one dish really well. In this project we will be exploring simple (but delicious) dishes and working on basic cooking techniques.



Each day will focus on a different area in cooking from ingredients/nutrition to techniques to compiling a list of quick-go-to recipes. This project will culminate with an end-of-the-project feast where we share our delicious final projects and discuss our efforts/culinary mishaps.

Instructor: Thill
of students: 20
Grades: 8-12
Cost: \$35

Banging the Drums

Students will learn the basics of percussion, drumline rudiments, and drum kit maintenance. The project will cover the background of percussion and how the turn of the century brought on the drum kit. We will go through a variety of popular genres, rhythms, and grooves in order to understand the fundamentals of what it means to be a drummer. Participants will engage in basic stick work, experiment with full sized kits, as well as create their own drum fills.

Instructor: Waks
of students: 15
Grades: ALL
Cost: \$30



The Beady Bunch



Are you creative, artistic, and stylish? Come learn about the basic concepts of making beaded jewelry including bracelets, earrings, necklaces, and headbands. You will then get to select the beads and design and construct your own jewelry. Over the course of the term project, the level of difficulty of design and construction will increase. All jewelry created by the students will be theirs to keep and enjoy. Come prepared to inspire and be inspired! If you have done this project before, you are definitely welcome back. We will be learning new techniques including how to incorporate suede materials and feathers.

Instructor: Holtzman
of students: 30
Grades: 6-12
Cost: \$35

Behavioral Economics

From loss aversion to the winner's curse, humans behave in surprising ways. Whether your ambition is to better understand the world, save the environment, or make millions, behavioral econ will equip you with some of the big ideas produced by the union of psychology and economics. Multiple experiments each day will let us examine this interplay! We will use Thaler's delightful *Misbehaving* as our guide. Malcolm Gladwell heralds the book as "the story behind some of the most important insights in modern economics. If I had to be trapped in an elevator with any contemporary intellectual, I'd pick Richard Thaler." Students will be provided with a copy of *Misbehaving* that will be theirs to keep. They may take home any prizes won during experiments as well.

Instructor: McCorkle
of students: 24
Grades: 9-12
Cost: \$30

Biotechnology

Students will have to opportunity to explore the world of biotechnology through hands on processes. Throughout the week students will create glow in the dark bacteria, have the opportunity to analyze DNA samples from a (fictitious) crime scene, and explore infectious diseases using a hands-on simulated ELISA assay.



Instructor: Anderson
of students: 20
Grades: 9-12
Cost: \$35

Calligraphy 101

Students who are sick of texting and typing should leave the world of technology for a week and learn how to write with ink-dip pens. We will briefly explore the history and types of different font and practice how to write in several fonts. The goal of this project is to walk away with a beautiful copy of something handwritten (of your choice) on a piece of smooth Bristol paper that you can look at forever because it will simply be stunning!

Instructor: Lim
of students: 20

Grades: ALL
Cost: \$15

Chinese Breeze

We will read 青qīng风fèng (Green Phoenix), a level 2 book from the Chinese Breeze Graded Reader Series. Chinese Breeze is a large and innovative reader series which is designed for college and secondary school Chinese language learners. This book offers students a new opportunity to read for pleasure, to develop fluency and build confidence. The story of 青风 is an adaptation from the classical Chinese story of 聊斋志异 (originally published in 1740). Students will translate text, hold discussions, and create a poster based on the story. Open to high school students who are currently enrolled in Mandarin, and other students who are proficient in Chinese.

Instructor: Smetanick
of students: 15
Grades: 9-12
Cost: \$30

Chopped!

Based off of the hit Food Network show "Chopped", students will be given a unique set of items each day to create (as a group) their very own sport (Thursday), musical instrument (Friday), and board game (Monday). Some items will be obvious, while other items will force them to be extremely creative!

Instructor: Bushee
of students: 20
Grades: 7-12
Cost: \$25

Civilization 4

Ever wonder what it would be like for the Romans to fight the Aztecs? What if you could have the British Empire and the Han Dynasty be side by side? How would the Americans fare against the aggressive civilization of the Assyrians? We will answer these questions by playing the different civilizations in "Sid Meiers Civilization IV: The Complete Edition – PC" This turned based strategy game is like a giant chess match using the strengths and weaknesses of many different civilizations. Play against the computer to hone your skills early in the week, but find your civ and hone your skills to match off against other BASIS students for an epic battle with its multi-player feature. Many civs will enter, only one will leave victorious. Students will want to bring their own computer mice (USB port) and headphones.

Instructor: Namminga
of students: 30
Grades: 6-12
Cost: \$30

Combatting Code

Students will learn the basics of computer programs. Starting with Code.org and block based coding, students will move to the code combat RPG and learn to type in the Python Programming Language. Learn to code during Project Week! Computers will be provided.

Instructor: Planalp
of students: 30
Grades: ALL
Cost: \$15



Copper Jewelry

Using tools and materials found at hardware and craft stores, you can create copper links for bracelets, earrings, and even necklaces. You'll learn to plan a project, measure and cut wire, form and texture links and components, and hand-finish each piece to a satiny shine. The teacher will then help you give the finished piece an antiqued look.



Students must bring their own safety goggles, a ruler, and a small hand towel. No exceptions.

Instructor: Levy
of students: 30
Grades: 6-12
Cost: \$30

Create a Zine

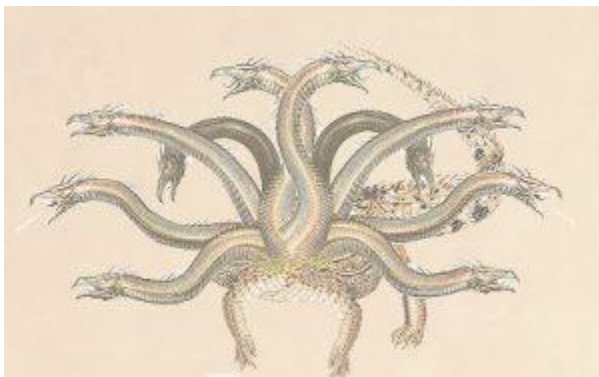
Students will practice their creative writing skills, as well as learn basic layout and design processes for creating their own independent books or zines. Students will also practice editing for both writing and images in the process of creating their projects. Content can include essays, drawings, creative writings, cartoons, or photos that students will create themselves. Content will be chosen by the student, edited with the help of their peers, and approved by the instructor. The final product of the project will be a small book or zine with the students' original work. In addition to the project, students will

also learn about the history and background of independent and self-publications similar to those they are creating.

Instructor: Hedges
of students: 30
Grades: ALL
Cost: \$10

Cryptozoology

Explore the dark and mysterious as we delve into the world of vampires, the Yeti, mermaids, creatures of the air and sea, and the monsters that have permeated folklore



throughout history. Learn about the cultures and legends that surround these cryptids and how they have inspired art, literature and music since the Medieval times. After studying “true” accounts of these legends, we will spin our own tales and collaborate in the creation of a new book of fantastical creatures.

Instructor: Hallagan
of students: 30
Grades: 8-12
Cost: \$20

Cultural Spanish Immersion Club

Immerse yourself in the Spanish and Hispanic culture through an eclectic blend of cultural experiences and activities focused on cooking, music, art, traditional games, movies, and Latin dances.

Some activities include:

Cooking: Students will develop an appreciation for different cultural cuisines by cooking and experiencing their project results! In addition, students will be participating in a field trip to a local restaurant that serves Spanish/Hispanic food.

Latin Dance: Learn salsa, merengue, cumbia, bomba, flamenco, and more. It is great exercise and loads of fun.

Latin Art: Students will have the opportunity to create their own masterpieces and build their own artistic knowledge. Additionally, students will make a piñata.

Traditional games and films in Spanish: Students will have the opportunity to play lotería (“Mexican Bingo”) and to learn or improve their Spanish skills through movies.



Instructor: Granillo
of students: 20
Grades: 8-12
Cost: \$20

Dancing Through the Ages

Students will learn about specific dance styles broken into decades starting with the 1920's and concluding with "today's latest and greatest dance moves". Classic and popular dance styles from each decade will be viewed and choreography will be taught. Students will also compare and contrast the differences in music, fashion, and other influences and significant "events" that had an effect on the dance movement in each decade. Students must have "movement friendly clothing and footwear. Flip flops are dangerous to dance in and therefore are not permitted.

Instructor: Baker
of students: 30
Grades: ALL
Cost: \$15

Duct Tape Design

Welcome to the wonderful world of design! Do you have style? Can you combine clothing to make the perfect outfit? Well, here's a challenge for you. You've seen wallets, bags and purses, but do you have the creativity to pull it all together and make a complete outfit out of duct tape? Create a duct tape dress/skirt and top/ pant and vest combo as well as hat, shoes, and even accessories. Then model your creation on the BASIS runway!

Instructor: Slayton
of students: 30
Grades: ALL
Cost: \$30



Egg Drop

In this project, students will team up to design a container which will protect an egg while dropping an egg from a specific height. The goal of this project is to determine the maximum height in which an egg will survive. This will require building a container using specific materials to protect an egg during a fall. Materials utilized will include rubber bands, scissors, cotton, tape, 4"x4"x4" boxes, and plastic cups. The team which drops their egg from the highest height wins.

Instructor: Walkons
of students: 20
Grades: ALL
Cost: \$20

Fandom Mania

Do you love Doctor Who, Sherlock, Star Wars, or another Fandom? Then Fandom Mania is for you! We will begin project week by watching clips of movies and shows from different Fandoms. Then, each student will have the opportunity to create their own fandom. This will include creating the main characters, setting of the story, and main plot points. Students will then finish the week by putting everything together into a short story, first chapters of a novel, or beginning of a graphic novel with presentations on the last day. Some possible Fandoms we will watch for inspiration (bring more ideas as well!): Doctor Who, Percy Jackson, Hunger Games, Star Wars, Star Trek and Sherlock.



Instructor: Trillo
of students: 30
Grades: ALL
Cost: \$10

Film & Literature for Foodies

This course will explore food as a literary and visual topic. Each day of the project, we will pair a film and short reading that portrays food as a central part of the story, and then cook (and eat) a featured recipe.

Instructor: Taylor-Antal
of students: 30
Grades: 9-12
Cost: \$40

Forensics

Students will investigate 3 crimes: a theft, a poisoning, and a death. Student Crime Scene Investigators will learn how to sketch a crime scene, collect and handle evidence, and conduct forensic testing. Lecture and activities will include:



Day 1: Theft Investigation—finger printing and chromatography

Day 2: Poisoning Investigation—hair and fiber analysis and toxicology

Day 3: Death Investigation—serology and entomology

Instructor: Sandor

of students: 30

Grades: ALL

Cost: \$20

Game of Strategy

Each day the project will begin with a discussion about strategies in games and the concept of Nash Equilibria and how they relate to repeated play. We will be learning how one can improve and optimize their strategy when playing a game again against the same or similar opponents. We will be playing various board games that are relatively quick (30-45mins), and offer high replay value. These table top games require commitment to a strategy (usually from the start) and proper execution of that strategy to win (they also involve randomness, so luck could play a small roll). New games we will be playing include Splendor, Lattice, Sequence, Avalon: the Resistance and Ascension, as well as some familiar favorites like Settler's of Catan, Dominion, and 7 Wonder's. Students are also encouraged to bring their favorite (approved) games from home to add to the diversity of gaming during the week

Instructor: Warmbrand

of students: 30

Grades: 8-12

Cost: \$15

Junior Golf Camp

This project will take place at *Orange Tree Golf Resort at 10601 N 56th St, Scottsdale*. The students will need to be dropped off by **8:30AM** and picked up at **1:00PM**. Lunch will be included each day. The student to instructor ration will be 6 to 1 or better. This is a comprehensive program covering all aspects of the game, with time spent on full swing with drivers and with irons, short game with specific sessions on putting, pitching, chipping and sand play, and there will be sessions on rules and etiquette and keeping

score. The program will be run through Jacobs' Golf, www.jacobsgolf.com. Students are responsible for bringing clubs (loaner clubs available), water bottle, and all shirts must have collars, no denim, clean gym shoes may be worn instead of golf shoes, sunscreen, and a hat.

Instructor: Weber
of students: minimum of 6
Grades: ALL
Cost: \$300
Location: *Orange Tree Golf Resort at
10601 N 56th St, Scottsdale*

*A signed waiver of liability form is required.



Molecular Gastronomy

Molecular Gastronomy is a discipline in the culinary arts that investigates the science involved with selecting, preparing and enjoying gourmet food. Molecular Gastronomy uses techniques from chemistry and physics to create edible creations that seem out of this world. By transforming the textures of food into innovative eating experiences, students will explore the culinary world while also applying the scientific method.

Instructor: Sabatino
of students: 20
Grades: 7-12
Cost: \$15

Mountain Biking and Bike Maintenance

Join us as we spend time mountain biking some of the greatest trails in the Phoenix Mountain Preserve which can be biked to from school. We will spend time improving our riding as well as learning basic to intermediate bike maintenance and repair skills. Riders of all skill levels are invited. MUST have a helmet and functioning mountain bike.

*A signed waiver of liability form is required

Instructor: Ribbens
of students: 15
Grades: ALL
Cost: \$50



Olympians

Students will choose an Olympian from either a national basketball or a volleyball team and research about them. The students will not be limited to the United States; they may choose any country to do the Olympian research on. They will gather information using the internet on the Olympians background personal life, sports career, what their role on the team is, and what specifically their position does for the team. The students will then construct a poster and presentation. After presenting, the students will demonstrate the performance of the sports.



*A signed waiver of liability form is required.

Instructor: Heatherly
of students: 24
Grades: 8-12
Cost: \$15

Painting & Cross Stitch

Do you love painting or following a pattern? Then, this is the project for you! Join us this year in making great paintings on canvas and cross stitching patterns on cloth. We'll spend the first two days with acrylic paint on various canvas sizes. The last two days will be spent cross stitching. Students will have various patterns to choose from. Each student will finish at least two pieces on canvas and one cross stitch pattern. Come make masterpieces!

Instructor: Hazelwood
of students: 30
Grades: ALL
Cost: \$25



Poker & Strategy

Poker is increasingly becoming a very popular game internationally. Though there are many elements of chance involved in poker, it is primarily a game of skill. We will learn some of the most popular poker games including Texas Hold'em, Omaha Hold'em, Seven card stud, razz and other variants. In each, we will talk about betting strategy as well as gameplay. Every day we will have mini tournaments on different games, and one big hold'em tournament at the end!

Instructor: Firzli
of students: 30
Grades: ALL
Cost: \$20

Print Making

In the 19th century artist started creating limited edition prints using various printmaking methods. Students, come and experience the creation of Relief Prints in the tradition of great artist such as Pablo Picasso, Andy Warhol, Vincent van Gogh, and Ludwig Kirchner. The budding Printmakers will carve a Linoleum "plate" to create their one of a kind original limited edition prints. Plus Students will also create a smaller plate for printing personalized greeting cards.

Instructor: Rieser
of students: 24
Grades: 7-12
Cost: \$45

Relativity, Cosmology, and Other Strange Phenomena in Physics

Physics is the science of how the universe works; it is intended to make sense of the everyday and explain the mysteries we humans discover. Yet physics there are aspects of physics that just don't make sense. How can moving faster slow down time? How could something be in more than one place at one time? How does 95% of the universe comprise of some enigmatic, unobserved stuff? In this course we will dive deep into the logic behind these paradoxes and debunk the popular misconceptions behind



them. We will also explore the nature of the universe on the grandest scale using the science we derive. Part of this course will be reading the book "Just Six Numbers" by Martin Rees, illustrating that the entirety of the universe, its fate, and its nature is determined by a handful of specific values.

Instructor: Deluzio
of students: 25
Grades: 8-12
Cost: \$15

Rhinestones

Join Ms. Cooper to learn how to rhinestone practically anything. Learn the ins and outs of putting a little bling in your life. You will be taught how to create your own designs and how to select suitable rhinestoning materials. You'll start by rhinestoning a picture

frame and then flower pot, and headband to enjoy this summer. In the following days students can bring in what they would like to add some flash to: cell phone cases, license plate covers, accessories, hair clips, flip flops, watches, etc.

Instructor: Cooper
of students: 30
Grades: ALL
Cost: \$25

Rockets!



Students will design and construct different powered rockets. They will construct the rocket, predict its performance, fly the rocket, and file a post-flight mission report. Missions include achieving high altitude records, landing on a "planetary" target, carrying payloads, testing a rocket recovery system, and more!

Instructor: O'Dea
of students: 25
Grades: ALL
Cost: \$45

School of Life

The School of Life is a place that tries to answer the great questions of life. In addition to existential questions, we will be dealing with practical life concerns to include how to do your taxes, essential car maintenance, why compound interest is the eighth wonder of the world and other hard hitting and important topics that weren't included in the BASIS curriculum. We will attempt to bring in subject matter experts when available.

Instructor: Clapeck
of students: 30
Grades: 9-12
Cost: FREE

Slayage: The Rhetoric and Symbolism of Buffy the Vampire Slayer

In a 2013 interview, Joss Whedon stated, "Some of my best stealing — I mean, inspiration — is from Shakespeare," which is part of the reason that Whedon's works have inspired international peer-reviewed journals and annual conferences. This discussion-based project centers on Whedon's television series Buffy the Vampire Slayer,



which originally ran from 1997 to 2003. Students will read scholarly critiques and analyze episodes for narrative elements such as themes, adherence to and subversion of archetypes, and symbolism, as well as to consider the show's treatment of gender, language, class, and race. Students will be responsible

for creating an original written work (script, short story, poem, song, etc.) inspired by Whedon (and perhaps, Shakespeare).

Instructor: Witz
of students: 30
Grades: 8-12
Cost: FREE

Sock Creatures

Do you love sewing and crafting your own stuffed animals? In this project, we will create some cute, cuddly, and kind-of-crazy creatures entirely out of socks! Students will learn how to read a pattern, use basic sewing techniques, and practice their creativity. Come unwind some thread at the end of the year and make your own summertime friend.

Instructor: Kirwan
of students: 30
Grades: ALL
Cost: \$30



Steam Punk Art

The look of forged metal on a journal cover or as a show stopper display of art work. These metal tape projects are fun to create and simple to make. Once you know the basic steps, with a little imagination the possibilities are limitless.

Instructor: Homan
of students: 30
Grades: ALL
Cost: \$25

Theatre for Social Change

Theatre has a long history of being used not only for entertainment, but as a medium to discuss and inspire social progression and change. Students will learn about the history of theatre for social change, and watch examples of past plays and projects that have been used to further the communities of the artists. After understanding the fundamentals of theatre for social change, students will work together to choose their own kind of performance, agree on a social issue that they would like to address in their performance (ex. bullying, discrimination, etc.), and then write and practice their performance. At the end of the week, students will perform in front of their community and lead a discussion inspired by the performance.

Instructor: Speth
of students: 30
Grades: ALL
Cost: FREE

The World of Sports

This project will focus on a sport from a different region of the world each day. We'll talk about the rules of the sport, the cultural significance of it, and then we'll spend the rest of the time playing it. This project will use the school gym as well as the fields at Road Runner Park. Students will walk to the park from school with instructor supervision and will return to campus by the end of the day.



Instructor: Shattuck
of students: 24
Grades: ALL
Cost: \$25

*A signed waiver of liability form is required.

ZUMBA

Would you like to have fun while exercising and learning Spanish at the same time? "The story of Zumba begins with an accident that seems too good to be true. Back in the '90s in Colombia, dancer and choreographer Alberto Perez was teaching an aerobics class and he forgot his regular music so he reached into his backpack and pulled out tapes of salsa and merengue. Fast forward to today, and Zumba has certified instructors in more than 125 countries around the world. Each class uses salsa, cumbia, bachata, and other Latin and international rhythms. ("Zumba Is A Hit, But Is It Latin?" NPR. NPR, 05 Mar. 2012. Web. 29 Mar. 2016.) Come and have fun while learning Spanish through dance movements. This project is open to girls AND boys of grades 7 and up. Students should wear comfortable clothing and shoes.

Instructor: Williams

of students: 20

Grades: 7-12

Cost: FREE