SUMMER UNIVERSITY FOR KIDS
a unique enrichment program for grades 4-9
SONOMA STATE UNIVERSITY

SESSION 1: JUNE 15–19
SESSION 3: JULY 6–10
SESSION 4: JULY 13–17
SESSION 2: JUNE 22–26
SESSION 3&4: JULY 6–17
SESSION 5: JULY 20–24
ABOUT EXCEL

EXCEL FOR YOUTH is a unique academic enrichment program that offers students entering 4-9 grades accelerated classes in science, math, technology, visual art, drama, and writing. It is celebrating its 33rd year and has served over 21,000 students since 1982.

One and two week classes take place on the campus of Sonoma State University and use the school’s specialized arts, science, and technology labs, as well as providing guest speakers and field trips. Exceptional mentor teachers include university faculty, professionals from specialized fields, and teachers from area districts who design classes to capitalize on each student’s interest, creativity, and curiosity.

NEW IN 2015

• **TENT LOCATION CHANGE** (checking in and out) – please note, due to construction and room upgrades, the EXCEL tent will be located between Salazar Hall/Technology High School and the Field House *(please see map on adjacent page).*

• Four one-week sessions with a limited number of two-week classes overlapping the regular weeks of programming.

• We are pleased and excited to be able to offer a new thematic week for students entering grades 4-6. This pilot program of EXCEL offers the same quality instruction, but with a new twist. The ALL day program starts at 9:00am with a welcome and team building exercises. The students are then assigned to a group depending on their grade level and theme chosen (*Water Wonders* or *Inventor’s Workshop*). Students rotate approximately every two hours between three different classes. Lunch bunch is included, and parent pick up is at 4:00pm. *(For full course descriptions and faculty bios, go to pages 27-28)*

• **FEES** – classes are either $180 or $195 for a 1-week class, and either $360 or $380 for a 2-week class. The $195 and $380 courses include additional materials/supplies. **NEW students receive a 10% discount. Also, students who take at least two regular session classes are eligible for a 10% discount on the theme week (July 20-24).**

• **PARKING** – Each student confirmation packet will include a general lot parking pass for drop off and pick up, as well as for Open Houses. *General parking permits are valid in lots E, F, J, G, H, L, M, N, and O lots only. General permits are also valid in the Housing lots between 7:00 a.m. and 5:00 p.m.*
EXCEL AT SONOMA STATE UNIVERSITY – DIRECTIONS

From Northbound 101: Take Rohnert Park Expressway exit. Turn right onto Rohnert Park Expressway and follow to its end at Petaluma Hill Road. Right on Petaluma Hill Road to the stoplight at East Cotati Avenue. Right on East Cotati Avenue to Main Entrance of the campus on your right. The EXCEL Tent is located between Salazar Hall and the Field House.

From Southbound 101: Take Rohnert Park Expressway exit. Turn left onto Rohnert Park Expressway and follow to its end at Petaluma Hill Road. Right on Petaluma Hill Road to the stoplight at East Cotati Avenue. Right on East Cotati Avenue to Main Entrance of the campus on your right. The EXCEL Tent is located between Salazar Hall and the Field House.

GENEROUSLY SPONSORED BY...
SESSION 1: JUNE 15-19  (pages 6-11)

MORNINGS 9AM-12PM

Build Your First Website (5th-8th)
Checkmate Chess (4th-8th)
Comedy on Stage (5th-8th)
Crash & Burn Chemistry AM (4th-6th)
How to Run a Successful Business (4th-9th)
Jr. Biotech AM (6th-9th)
Metal Jewelry AM (4th-6th)
Pottery Studio (6th-9th)
Summer Safari (4th-6th)
Woodshop for Kids (4th-6th)

AFTERNOONS 1:00-4:00PM

Annie: The Mini-Musical (4th-9th)
Crash & Burn Chemistry PM (4th-6th)
Jr. Biotech PM (6th-9th)
Metal Jewelry PM (6th-9th)
Mythical Monster Quest (4th-6th)
Not So Simple Machines (4th-6th)
Sports Science Challenge (5th-8th)
Writer's Workshop (7th-9th)

SESSION 2: JUNE 22-26  (pages 12-17)

MORNINGS 9AM-12PM

3D Animation with Autodesk 3DS MAX® (6th-9th)
Adventures in Lego Robotics (4th-6th)
Build Your First Website (5th-8th)
Ceramic Studio (4th-6th)
Dig It! Archaeological Mystery (6th-9th)
Fashion Design AM (6th-9th)
Harry Potter at Hogwarts (4th-6th)
Plaster the Wall with Art (6th-9th)
Pre-Med for Kids (4th-9th)

AFTERNOONS 1:00-4:00PM

All Cracked Up: Eggshell Art (4th-6th)
Exploring Shakespeare (6th-9th)
Fashion Design PM (4th-6th)
Industrial Scrap Magic (6th-9th)
Investing in Your Future (6th-9th)
Just Write! (4th-6th)
Kid's Court (6th-9th)
Platform 9 3/4 (4th-6th)
Songwriter's Blitz (5th-9th)

SESSION 3: JULY 6-10  (pages 18-21)

MORNINGS 9AM-12PM

Acting Out! Improv Studio (5th-8th)
Destination Rainforests: Scientific Illustration (6th-9th)
#Screentime: Social Media (7th-9th)
Woodshop for Kids (4th-6th)

AFTERNOONS 1:00-4:00PM

Crime Busters (4th-6th)
Sci-Art: Rainforest World (4th-6th)
Information Designers: Ideas, Graphics and Data – Visualized! (6th-9th)
Time Warp Travelers (4th-6th)
SESSION 3-4: JULY 6-17  (pages 22-24)

MORNINGS 9AM-12PM
Blast Off! The Physics of Rockets (4th-8th)
Digital Photography AM (7th-9th)
Kids in the Kitchen (4th-8th)
Summer Clay Studio (5th-8th)
Veterinary Adventures (4th-6th)

AFTERNOONS 1:00-4:00PM
EV3® Lego Robotics Design and Competition (6th-9th)
Fantasy Baseball (6th-9th)
Farm to Table (4th-8th)

SESSION 4: JULY 13-17  (pages 25-26)

MORNINGS 9AM-12PM
Kitchen Chemistry (5th-8th)
Multimedia Academy (6th-9th)
Star Wars: May the Farce Be With You (4th-6th)

AFTERNOONS 1:00-4:00PM
Age of the Dinosaurs (4th-6th)
Art of Arguing (7th-9th)
Harry Potter/Deathly Hallows (5th-8th)
It’s a Multimedia World (4th-6th)

SESSION 5: JULY 20-24  (pages 27-28)

9AM–4PM
WATER WONDERS
• Water as a Force of Nature
• Splash Zone Illustration
• Water Innovations

9AM–4PM
INVENTOR’S WORKSHOP
• Rube Goldberg Challenge
• Arcade-O-Rama
• The Great Race – Hybrid Vehicles
BUILD YOUR FIRST WEBSITE (Grades 5-8)

You won’t believe how simple it is to create your first website using free online tools. Learn the basic principles of web design and get your start as a web builder. Develop a personal theme then assemble titles, text, photos, video clips, and slide shows to make your website totally unique. Using cameras and PhotoBooth (on a Mac), shoot your own photos and videos to add to your site. You can also attach more pages, links, and hyperlinks to other websites. Your page is yours to keep, share it with friends and family, and update it even after the class is finished. If you have a digital camera available, bring it along (although not necessary). You are also welcome to bring photos on a CD or flash drive.

ROBERT RUIZ  M.A., taught History, Computer Science, Yearbook, and Photography at Mountain Shadows Middle School in Rohnert Park for over 20 years. He has privately created websites for nonprofit organizations, businesses, and individuals.

JUNE 15-19 | 9am-12pm | Stevenson Hall 2055 | #1167 | $180

CHECKMATE CHESS FOR KIDS (Grades 4-8)

What do Bill Gates, William Shakespeare, Justin Bieber, John F. Kennedy, Queen Elizabeth I, Jay-Z, Albert Einstein, and Michelle Obama have in common? You guessed it—they all loved to play chess. Chess is a fun, dynamic, interactive game that builds and develops decision making, creativity, and forward thinking problem solving. It is over 1500 years old and is played by 30 million kids in the United States—more than all other sports. Learn to succeed from an expert competitive chess player. Classes consist of coaching, supervised play, drills, chess puzzles, and chess history. Become a skilled tournament player as you learn how to move pieces, formulate strategies, and make a plan. Enjoy learning to play the greatest board game of all time!

DANIEL TRIMBACH  B.S., C.B.T., has been playing chess for thirty years and teaching chess for over ten years. Daniel placed in the top ten in California in junior high and high school. He currently teaches chess at several schools and gives private lessons.

JUNE 15-19 | 9am-12pm | Salazar Hall 2024 | #1168 | $180

COMEDY ONSTAGE (Grades 5-8)

Interested in the world of comedy? Spend a hilarious week acting out scenes from the best in theatrical skit comedy selections. Perform key scenes from a host of wacky skits and let the magic of theater transport you into the world of your own imagination. Learn about reading, casting, and “blocking,” and discover how to build up a scene, then deliver a punch line to make the audience laugh. There will be many sketches to choose from, including “Murder on the Orient Express”, a fun-filled spoof with shady characters you will relish portraying. Expand your acting and comedy skills and become more confident performer. We will perform the skits on the last day for relatives and friends to see.

RAYMOND SKIPP is a graduate of the Royal Academy of Dramatic Art in London, England. He currently teaches drama in many local schools. Besides performing in both film and television, he has an extensive Shakespearean background.

June 15-19 | 9am-12pm | Ives Hall 76 | #1169 | $180
CRASH AND BURN CHEMISTRY A.M. (Grades 4-6)

Did you know that everything on earth (and in the universe) is made up of chemicals? “Crash and Burn Chemistry” is an introduction to chemical reactions that form solids, change colors, smoke, bang, whiz, flash, and glow in the dark. Come and explore the nature and mystery of chemicals and how they affect us and our environment. Identify an unknown chemical spill. Build a smoking machine that actually shows what happens when a person smokes a cigarette. Carry out your own experiments to identify the nature of chemicals. Then take the experiments home to amuse and amaze your friends and family. Last, but not least, join us to uncover the secret of the “glow in the dark pickle.”

JENNIFER ZACKS B.A., in Environmental Studies, has taught full time for the Cotati–Rohnert Park Unified School District for the past nine years.

JUNE 15-19 | 9am-12pm | Carson Hall 1 | #1170 | $180

HOW TO RUN A SUCCESSFUL BUSINESS (Grades 4-9)

Bill Gates, Oprah Winfrey, and Mark Zuckerberg all started off as kids who were interested in being their own boss and seeing their creative ideas become a reality. Learn what you need to start a successful business. Work in collaborative teams to learn, step-by-step, how to create a business, using creative approaches to meeting customers’ needs. Meet successful entrepreneurs who started their own businesses, and have an exclusive visit to a premier business start up in the North Bay. Discover many of the secrets to developing a business that is successful and ethical, and that provides customers with a good product or service at a fair price. Utilize your critical thinking skills and creativity as you explore the exciting world of entrepreneurism!

MICHAEL FANNING, Ph.D., Ed.D, M.A. a former elementary/Middle School teacher and administrator, Dr. Michael Fanning co-founded and was the CEO of a successful business. He currently serves as a college instructor and consultant. Michael has been using project based learning in the classroom, including teaching students about business and careers for many years.

JUNE 15-19 | 9am-12pm | Salazar Hall 2025 | #1171 | $180

JUNIOR BIOTECH A.M. (Grades 6-9)

Biotechnology is rapidly advancing, as portrayed in TV shows like “CSI”. Step into the role of a scientist using biotechnology in a different field each day. As cell biologists you will take a look at your cheek cells, onion cells, red blood cells moving through a goldfish’s tail, and insects under the microscope. As a molecular biologists you will isolate DNA from your own cheek cells and bring home a little DNA necklace. As a forensic scientist you will use DNA fingerprinting and gel electrophoresis to solve a staged crime. As a biochemist you will study the rate of enzyme catalysis as you perform a chemical reaction that occurs during the production of biofuel.

JACQUELYN GUILFORD, Ph.D., did her post-doctoral fellowship at the University of Hawaii College of Pharmacy focused on identifying natural products with chemopreventive properties. She has taught General Chemistry courses at SSU since Fall 2011.

JUNE 15-19 | 9am-12pm | Salazar Hall/Tech High School 1027 | # 1172 | $195
METAL JEWELRY A.M. (Grades 4-6)
Learn to make jewelry the way professionals do, using authentic jewelers’ tools and basic metalsmithing techniques without soldering or power tools. Work with brass, copper, and semi-precious gems to create necklaces, pins, bracelets, earrings, or small sculptures. Learn to use pliers for bending wire to define lines and create form and use hammers to create texture and shape. Advanced work available for repeat students.

GEORGIA DWYER  B.A. has been a substitute art teacher at Nonesuch School and a jewelry art teaching assistant at the Sebastopol Center for the Arts. She has her own jewelry line, Georgie Girl Design.

JUNE 15-19 | 9am-12pm | Art Building 115 | #1173 | $195

POTTERY STUDIO (Grades 6-9)
Have you ever wanted to create your own usable plates, vases, bowls, cups and more? Focus on mastering the four hand-building techniques for making your own unique earthenware. Pinch, coil, extrude, and slab build beautiful and creative pieces that can be used daily. Explore ways to decorate your pieces with texture, carving, and colorful underglazes and glazes. Please bring a towel and your imagination. Due to time restraints, some pieces may not be fired by the end of class. Please plan to pick up additional pieces the following week.

LAUREL BEGLEY is a professional ceramic artist and teacher who divides her time equally between teaching and making. She has taught children and adults at many clay studios and schools around Sonoma County, including the Sebastopol Center for the Arts.

JUNE 15-19 | 9am-12pm | Art Building 120 | #1174 | $195

SUMMER SAFARI (Grades 4-6)
Have close-up encounters with some of the most amazing creatures in the animal kingdom! Journey through the animal world and meet dozens of live critters, including pythons, salamanders, tortoises and geckos. Learn why tigers and zebras make bad pets and why dogs, cats and hamsters are such good companions. Compare the skulls of camels, warthogs and bears. Reconstruct a deer from a bucket of bones. Hobnob with those crawlies that we love to hate: itsy-bitsy and BIG Hairy spiders. Featured guests include a visitor from Reptile Rescue, as well as a Fennec Fox, an African Serval Cat.

BONNIE CROMWELL has traveled to Africa three times and worked at Marine World Africa U.S.A. as Assistant Curator of Reptiles. She has worked with Animal Planet and Mutual of Omaha’s Wild Kingdom. She now cares for 130 animals that she uses in her program, Classroom Safari.

JUNE 15-19 | 9am-12pm | Art Building 130 | #1175 | $180

WOODSHOP FOR KIDS (Grades 4-6)
Wham, bang, hammer and saw. Here’s your chance to experience a real woodshop and discover skills that will last you a lifetime. Build great-looking projects out of wood that have real value. Use new wood, weathered wood, scrap wood, round and flat wood and transform it into a sturdy tool box, a charming bird house, and more. Learn to safely operate a variety of hand tools including hammers, saws, screwdrivers, vices, planes, and drills, and observe a demonstration of the big power tools in the SSU Woodshop. Walk away with some terrific projects and an “I can build it” attitude.

MIKE MCGUIRE  M.A. in Education from St. Mary’s College, has been a teacher and mentor for over 30 years, was Santa Rosa Chamber of Commerce Elementary Teacher of the Year.

JUNE 15-19 | 9am-12pm | Art 113 | #1176 | $195
ANNIE: THE MINI-MUSICAL (Grades 4-9)

Leapin’ Lizards! Annie the Musical is a worldwide phenomenon with the release of a new movie version just a few months ago. With equal measures of pluck and positivity, little orphan Annie charms everyone’s hearts despite a next-to-nothing start in 1930s New York City. Determined to find her parents who abandoned her years ago on the doorstep of an orphanage run by the cruel Miss Hannigan, Annie escapes to the wondrous world of NYC. Adventure ensues, leading Annie to a new home and family in billionaire Oliver Warbucks, his personal secretary Grace Farrell and a lovable mutt named Sandy. With plenty of parts to go around, including featured roles and ensemble parts for orphans, servants, and tourists, join this cast as we sing such favorites, as “It’s the Hard Knock Life” and “Tomorrow.”

RAYMOND SKIPP (see bio on page 6)
JUNE 15-19 | 1-4pm | Ives 76 | #1177 | $180

CRASH AND BURN CHEMISTRY P.M. (Grades 4-6)

Did you know that everything on earth (and in the universe) is made up of chemicals? “Crash and Burn Chemistry” is an introduction to chemical reactions that form solids, change colors, smoke, bang, whiz, flash, and glow in the dark. Come and explore the nature and mystery of chemicals and how they affect us and our environment. Identify an unknown chemical spill. Build a smoking machine that actually shows what happens when a person smokes a cigarette. Carry out your own experiments to identify the nature of chemicals. Then take the experiments home to amuse and amaze your friends and family. Last, but not least, join us to uncover the secret of the “glow in the dark pickle.”

JENNIFER ZACKS (see bio on page 7)
JUNE 15-19 | 1-4pm | Carson Hall 1 | #1178 | $180

JR. BIOTECH P.M. (Grades 7-9)

Biotechnology is rapidly advancing, as portrayed in TV shows like “CSI”. Step into the role of a scientist using biotechnology in a different field each day. As cell biologists you will take a look at your cheek cells, onion cells, red blood cells moving through a goldfish’s tail, and insects under the microscope. As a molecular biologists you will isolate DNA from your own cheek cells and bring home a little DNA necklace. As a forensic scientist you will use DNA fingerprinting and gel electrophoresis to solve a staged crime. As a biochemist you will study the rate of enzyme catalysis as you perform a chemical reaction that occurs during the production of biofuel.

JACQUELYN GUILFORD (see bio on page 7)
JUNE 15-19 | 1-4pm | Salazar Hall/Tech High School 1027 | #1179 | $195
METAL JEWELRY P.M. (Grades 4-6)
Learn to make jewelry the way professionals do, using authentic jewelers’ tools and basic metalsmithing techniques without soldering or power tools. Work with brass, copper and semi-precious gems to create necklaces, pins, bracelets, earrings or small sculptures. Learn to use pliers for bending wire to define lines and create form and use hammers to create texture and shape. Advanced work available for repeat students.
GEORGIA DWYER (see bio on page 8)
JUNE 15-19 | 1-4pm | Art Building 115 | #1180 | $195

MYTHICAL MONSTER QUEST (Grades 4-6)
Travel the globe and uncover the magical, mythical places where Monsters, Dragons, Griffins and Minotaurs roam. Using the Fantasy World Map, go where heroes dwell and legends are born. We trek across land, dive under the sea and fly through air as we discover the beasts of the earth (Basilisk and Unicorn), winged wonders (Pegasus and Roc) and creatures of the deep (Mermaids and Kraken). Discover some of Earth’s strangest real creatures, like the Barking Spider. Create a mythical sea creature, Confetti Yeti, or Ice Huggy, and become a certified monsterologist. We’ll also conduct our own “Monster Hunt” on the SSU campus and track such creatures as the Googly-eyed Wart Flopper.
MARIE ZORN, B.A. in English teaches 7th grade English at Harvest Middle School in Napa. Marie is also the liaison for the Napa Valley Unified ALPS/Gifted and Talented program.
JUNE 15-19 | 1-4pm | Carson Hall 68 | #1181 | $180

NOT SO SIMPLE MACHINES (Grades 4-6)
Build the simple machines that ran the world before electronics and computer chips were invented. Create a catapult as an example of the use of a lever. Rig up a water wheel from simple materials to demonstrate a wheel and axle machine. Explore how Archimedes’ screw was used in early irrigation projects (Ancient Egypt), and create an example of a spiral plane. Learn about the variety of simple machines: wheel and axle, incline plane, levers, screws and wedges. Calculate the forces needed to do some simple tasks and discover the mechanical advantage of using simple machines to do the work. Working in teams, construct a modern trebuchet, a medieval machine used for hurling stones, and finish the week with a contest to see which trebuchet launches a projectile the furthest distance.
MIKE MCGUIRE (see bio on page 8)
JUNE 15-19 | 1-4pm | Salazar Hall/Tech High School 1026 | #1182 | $195
SPORTS SCIENCE CHALLENGE (Grades 5-8)

Explore, Participate, Discover! Learn the hidden science behind the world’s premiere athletes. Gain a greater understanding of how the human body reacts to exercise, training, different environments and stimuli. Explore kinetic energy, forces in action, and muscle memory. Engage in outdoors challenges to discover how the brain and body work together to promote health from cellular to whole body.

Find answers to questions you have always wondered about like, “Does practice make perfect?” “Are brand name golf balls better than generic?” “What’s lactic acid?”, and more. From the physics behind throwing a curve ball, to the elemental role of your own two feet, science, technology, engineering, and math help power the sports that we all love. By thinking scientifically about your favorite sport, see how you can become a better athlete! Are you up for the challenge?

DEANNA OLIVAREZ and LINDSAY HUNTER have over 18 years of teaching experience through the RVUSD in Santa Rosa. Lindsay has also taught post-secondary for FIDM while Deanna has been a school garden coordinator for several years. Their project-based curriculum includes diverse subjects such as: Lego robotics, science, gardening, fitness, computer applications, art, industrial design, and graphics.

JUNE 15-19 | 1-4pm | Salazar Hall/Tech High School 1034 | #1183 | $180

WRITER’S WORKSHOP (Grades 7-9)

Do you find yourself jotting down poems in your notebook at school? Or have stories that you can’t seem to finish? Have you always wanted to write a play but don’t know where to begin? In this intensive week-long writing workshop, plunge into fiction, non-fiction, poetry and playwriting using all means possible; art, nature, music, and collaboration. Experiment with dream writing, word salads, hieroglyphics and a whole host of tools to get your writing juices flowing. Shape voices, characters and feelings into whole, beginning-to-end pieces. Capture feelings, thoughts and ideas you didn’t even know were there! Feed your unique creative style and leave with a portfolio of poetry, prose and writing techniques that you can use over and over.

CLAIRe DRUCKER M.F.A. teaches at English at SRJC and poetry through CA Poets in the Schools. She has taught at Sonoma Academy, Santa Rosa High School, and currently offers private classes for adults.

JUNE 15-19 | 1-4pm | Salazar Hall 2015 | #1185 | $180

To register go to:
www.sonoma.edu/exed/excel
or call
707.664.2394

SESSION 1 • June 15-19 | 1:00-4:00pm
3D ANIMATION WITH AUTODESK 3DS MAX® (Grades 6-9)

Produce 3D models using the sophisticated tools of the 3ds Max program. Create static objects and scenes for virtual worlds as seen in movies, TV and video games. Learn the fundamentals of 3D animation and modeling using industry standard software. When you’re ready explore advanced topics such as lighting, material creation and character rigging. Create a portfolio of photo-realistic still images, courtroom-quality 3D models, and broadcast-quality animations, while learning traditional animation skills such as storyboarding, character design, animation theory, and camera layout. Leave class with not only inspiring work, but with a foundational knowledge of a professional skill.

DAVID MEIRIK B.S., is a credentialed teacher, artist and graphic designer who has worked from Los Angeles to Oslo, Norway. He currently teaches 3D animation, Graphic Design, and Entrepreneurship at Casa Grande High School in Petaluma.

JUNE 22-26  |  9am-12pm  |  Stevenson 2044   |  #1186  |  $180

ADVENTURES IN LEGO ROBOTICS (Grades 4-6)

EV3 Space Challenge dares students to build and program robots that complete a series of missions all set on Mars! Using LEGO's® most advanced and newest robotics technology – the powerful MINDSTORMS® EV3 system – teams of two, create multiple awe-inspiring Lego robots to achieve real world objectives. Our inspirations: the Mars Rover and comet lander, Philae. Plan, test, and modify robots to achieve timed mission challenges. Using ultrasonic, color, gyro and touch sensors, the robot interacts with it’s environment to collect specimens, navigate around large obstacles, create go-anywhere suspension to climb tough rocky terrain, and speed through the hard sand flats. Which team will be first? Which team will have the most accuracy?

You are only limited by your imagination!

DEANNA OLIVAREZ and LINDSAY HUNTER (see bio on page 11)

JUNE 22-26  |  9am-12pm  |  Schulz 2010  |  #1187  |  $195

BUILD YOUR FIRST WEBSITE (Grades 5-8)

You won’t believe how simple it is to create your first website using free online tools. Learn the basic principles of web design and get your start as a web builder. Develop a personal theme then assemble titles, text, photos, video clips, and slide shows to make your website totally unique. Using cameras and PhotoBooth (on a Mac), shoot your own photos and videos to add to your site. You can also attach more pages, links, and hyperlinks to other websites. Your page is yours to keep, share it with friends and family, and update it even after the class is finished. If you have a digital camera available, bring it along (although not necessary). You are also welcome to bring photos on a CD or flash drive.

ROBERT RUIZ (see bio on page 6)

JUNE 22-26  |  9am-12pm  |  Stevenson Hall 2055  |  #1189  |  $180
CERAMICS STUDIO (Grades 4-6)

Come and spend a week exploring the world of ceramics, rolling, pinching, pounding, and wedging clay into all sorts of shapes and forms. Let your imagination run wild as you create masks, whistles, bowls, and other sculptural and functional pieces, as well as spending some time learning to throw on the potter’s wheel. Explore ways to decorate your pieces with texture, carving and colorful underglazes and glazes. Be a part of the Raku firing at the end of the session and rise to the challenges as a team player on the Clay Olympics. Everything you make will be fired for you to take home. Please bring an apron and your imagination. Due to time restraints, some pieces may not be fired by the end of class. Please plan to pick up additional pieces the following week.

LAUREL BEGLEY (see bio on page 8)

JUNE 22-26 | 9am-12pm | Art Building 120 | #1190 | $195

DIG IT! AN ARCHAEOLOGICAL MYSTERY (Grades 6-9)

Work with a professional archaeologist and uncover an unsolved mystery as we reveal the secrets behind an archaeological site full of lost artifacts. Dig and excavate a portion of the University’s Archaeological Challenge site. Record artifacts, and features, and make interpretations about them. Learn archaeological methods onsite. Keep field notes and discuss your findings. Use real archaeological tools such as shovels, trowels, screens, and brushes. Discover the past through field research. Excavation will take place every day throughout the course at the Anthropological Studies Center’s site. Remember, wear appropriate clothing for working outside (long pants and no open toed shoes such as sandals or flip flops) and be prepared to get dirty! And bring your water bottles!

KYLE RABELLINO, M.A., is an archaeological specialist at the Anthropological Studies Center (ASC) at SSU. Kyle has been a special education teacher’s assistant at Comstock Middle School in Santa Rosa, and gives frequent tour to elementary school age children at the ASC on campus. Kyle has also been a teacher’s assistant for several undergraduate and graduate level classes at SSU.

JUNE 22-26 | 9am-12pm | Salazar Hall/Tech High School 1034 and ASC site | #1191 | $180

FASHION DESIGN A.M. (Grades 6-9)

Lights, music, runway, action! That’s how we finish our week of creativity and fashion. Dive into the history of fashion from the 1920’s to the present. Study designs classic to each decade and develop a strong foundation in a broad array of design options. Learn to sketch an outfit and then manifest your design in a final fashion show. Select fabric, cut, pin and sew your very own creations. Collaborate with other students to work with mannequins and choose accessories. Students contribute in many ways to the final “Show” as models, dressers, text writers, researchers, announcers, and coordinators.

KATHRYN HENDERSON has been teaching youth art camps and classes in Sonoma County for the past 20 years. Drawing on her degree in design and fine art, she offers students a broad spectrum of the arts. She has an extensive collection of vintage clothing and jewelry, which she uses in her classroom presentations.

JUNE 22-26 | 9am-12pm | International Hall 104 | #1192 | $180
HARRY POTTER AT HOGWARTS (Grades 4-6)

Bring to life the wild and zany characters of J.K. Rowling’s books about Harry Potter. Walk like Ron, talk like Hermione, moan like Myrtle and squeal like Peeves. Spend a week using theater games, improvisation and scripts to explore these rich and colorful characters from the Harry Potter stories. You may even choose to act out the roles of Professor Mcgonagall, master wizard Dumbledore or the huge lovable Hagrid, “keeper of the keys” at Hogwarts. Get on a Nimbus 2000 and hover over to Hogwarts’ School for Witchcraft and Wizardry. Explore the dark side with the villainous Voldemort or Quirrell. Relatives and friends are welcome to watch our end of the week performance.

RAYMOND SKIPP (see bio on page 6)
JUNE 22-26 | 9am-12pm | Ives Hall 76 | #1193 | $180

PLASTER THE WALL WITH ART (Grade 6-9)

Do you draw, sculpt and/or paint? Then unleash your imagination by acquiring new techniques using the natural material of plaster to mix, sculpt, mold, and paint plaster art. Begin this “jammed with art” week with the creation of a Moon relief. After designing it you’ll sculpt and paint, and make it come to life. Explore the delicate art of fresco painting and prepare a panel much like the famous Michelangelo’s Sistine Chapel in Rome, only smaller of course. By the end of the week, you will not only have new unique plaster artwork for your walls, but you will also be a Master Plaster Artist!

SANDRA NOVIA is a professional artist and art instructor. She teaches in both the private and public sectors and has dedicated over 2 decades to ensuring that children have an enriched education in the arts. She is a Co-Founder of Studio Project, a year-round alternative arts program of unique and innovative art instruction. A recent mosaic arts program was created by Sandra’s students at West Side Elementary School and is being exhibited at The Healdsburg Center for the Arts.

JUNE 22-26 | 9am-12pm | Art 130 | #1194 | $180

PRE-MED FOR KIDS (Grades 4-9)

Would you like to be a doctor, nurse, dentist, veterinarian or physical therapist? If you have ever thought about a future career as a health professional, come discover what these careers are about and what it takes to prepare for them. In this exciting hands-on class you study human anatomy, how to handle an emergency and witness a dissection. A Vet, M.D. and Physical Therapist will be among the classroom visitors who share their experience. Field trips include a physician led tour of the SSU Health Clinic, and a fascinating behind the scenes visit of Kaiser Hospital (including areas usually off limits).

Parent drivers are needed for a fieldtrip.

MICHAEL FANNING (see bio on page 7)
JUNE 22-26 | 9am-12pm | Darwin 326 | #1195 | $180
ALL CRACKED UP: EGGSHELL ART  (Grade 4-6)

Get ready to draw, paint, crack, and puzzle your way through this art packed class. Focusing on the art of mosaics, create art like they did in Ancient Greece, Rome, Egypt, and Asia... with a twist. We start with contour and still life drawings using a lot of different mediums like graphite, oil pastels, and markers, and with your final drawing you make your own unique mosaic with eggshells by painting, crushing, smashing and placing them together to create a unique mini mosaic masterpiece!

SANDRA NOVIA  (see bio on page 14)
JUNE 22-26  |  1-4pm | Art 130 | #1196 | $180

EXPLORING SHAKESPEARE  (Grades 6-9)

If you think Shakespeare is old fashioned, boring or too difficult, this is a drama class that will change your mind. In fact, this class reveals why so many of the world’s greatest actors have aspired to be cast in Shakespearean roles. Choose scenes among Shakespeare’s legendary plays filled with adventures, sword fights, comedy, love, hate, revenge and mercy. Experience the wide range of emotions expressed in the tragedy of Romeo and Juliet where teenagers die for love, or Macbeth who kills to get the crown, or Hamlet who feigns madness. In addition to the spectacle of tragedy, enjoy the lighthearted moments of comedy such as the battle of the sexes featured in the Taming of the Shrew, or in Twelfth Night with the unmasking of the pompous fool Malvolio. Participate in acting juicy scenes from famous plays of tragedy and comedy.

RAYMOND SKIPP  (see bio on page 6)
JUNE 22-26  |  1-4pm  |  Ives Hall 76 | #1197 | $180

FASHION DESIGN P.M.  (Grade 4-6)

Lights, music, runway, action! That’s how we finish our week of creativity and fashion. Dive into the history of fashion from the 1920’s to the present. Study designs classic to each decade and develop a strong foundation in a broad array of design options. Learn to sketch an outfit and then manifest your design in a final fashion show. Select fabric, cut, pin and sew your very own creations. Collaborate with other students to work with mannequins and choose accessories. Students contribute in many ways to the final “Show” as models, dressers, text writers, researchers, announcers, and coordinators.

KATHRYN HENDERSON  (see bio on page 13)
JUNE 22-26  |  1-4pm  |  International Hall 104 | #1198 | $180
INDUSTRIAL SCRAP MAGIC  (Grades 6-9)

Drill, cut, assemble, and fabricate in this wild, mixed media sculpture class. Experiment the transformation of discarded materials into extraordinary art, using scraps gathered from local industry and businesses. Cardboard, exotic wood scraps, metal, household plastics, bicycle parts, and plexiglass morph into the amazing and unexpected: unique wall reliefs, vertical assemblages in the round, figurative sculpture, and possibly a dream catcher or two! Experience a variety of hands-on, low-tech fabrication techniques and perfect your craftsmanship while learning to safely use hand tools and various fasteners, nuts, bolts, and sheet rock screws. Expand your knowledge of design and composition while you become familiar with the works of great sculptors like Tinguely, Nevelson, and Rauschenberg.

AILEEN CORMACK  B.A. in Fine Art, is a professional sculptor for over 20 years. She has over 12 years of experience teaching art to children and has worked with the Santa Rosa City School District.

JUNE 22-26  |  1-4pm  |  Art Building 113  |  #1216  |  $195

INVESTING IN YOUR FUTURE  (Grades 6-9)

Want to learn how to make your money grow and to finance all your future dreams? Investing is one way to achieve your aspirations. Learn how to invest money, understand the difference between stocks and bonds, the value of compound interest, and discover ways to invest your money to help it grow. Create a portfolio, including a variety of investments in both national and international companies. Find out what makes a stock a blue-chip stock and the different stock exchanges. Experience day trading and get answers to questions like “Is this a ‘high risk’ investment?” and “What’s the difference between a stock and a mutual fund?” Come invest your time and put your dreams into action.

PAUL OSSERMAN is a fifth grade teacher at Brook Hill Elementary in Santa Rosa. He has been teaching students from elementary school to junior college for over 30 years.

JUNE 22-26  |  1-4pm  |  Salazar Hall/Tech High School 1026  |  #1199  |  $180

JUST WRITE! CREATIVE WRITING FOR KIDS  (Grades 4-6)

Do you like to make up silly stories, create compelling characters, or play with poetry? Explore poetry, short stories, scripts, and many other types of writing through a variety of entertaining individual and group writing activities. Plot a story by creating believable characters, and then get them into (and out of) trouble. Write about the same incident from multiple points of view and rewrite a fairy tale by changing the setting. Create a script with a partner by solving a problem entirely in dialog. Write from the point of view of a shoe or a cell phone, and use sensory details to make a lie as believable as the truth. Let your imagination soar and your pen go wild! At the end of the class you’ll take home a class collection of writing to read and enjoy.

LISA SHULMAN is the author of several picture books, including Old MacDonald had a Woodshop, the Matzo Ball Boy, and the Moon Might Be Milk. She has written a middle school novel as well as dozens of children’s book for the educational market. As a visiting author, Lisa has spoken to hundreds of students about writing. Lisa has taught creative writing for children and teens all around Sonoma County and currently teaches at Apple Blossom School in Sebastopol.

JUNE 22-26  |  1-4pm  |  International Hall 201A  |  #1200  |  $180
KID’S COURT (Grades 6-9)
Do you swear to tell the truth, the whole truth, and nothing but the truth? This course challenges you to decipher the given evidence, and then build a case for a mock jury trial. Meet a judge, interview an attorney, and visit a courtroom. Become familiar with legal procedures while developing tactics and strategies for your part of the trial. The verdict lies in your hands! **Parent drivers are needed for a field trip to the Sonoma County courts.**

**GARY GUTTMAN,** B.A. in Communications, has taught English and humanities at several high schools, including Piner and Montgomery, and currently teaches English at Calistoga High School.

**JUNE 22-26 | 1-4pm | Salazar 2024 | #1201 | $180**

PLATFORM 9 ¾ (Grades 4-6)
Have you ever dreamed that you received a letter from Hogwarts? All Harry Potter fans are invited to participate in a wonderful week of wizarding! Once arriving at Hogwarts (Sonoma State University) you will be sorted into houses. Then partake in the enchanted classes that are required of the magically inclined. In Potions, concoct essence of nightshade and troll slime. Discover your patronus in Transfiguration and perfect your dueling skills in Charms. Study dragons in Care of Magical Creatures, then head outside for Quidditch practice (non-flying, because nobody wants to wake up in the hospital wing with Madame Pompfrey staring at them). Wrap up the term by participating in a mini Tri-Wizard Tournament, and take your O.W.L. exams. **Who will win the House Cup?**

**ELIZABETH HENDRICKSON** grew up in a family of scientists and strong readers, and developed a passionate curiosity about the world. Besides her love for science, she has a strong background in drama, building, and the creative arts. She has been an elementary school teacher for nine years, and is currently teaching 5th grade in Santa Rosa.

**JUNE 22-26 | 1-4pm | Salazar Hall/Tech High School 1027 | #1202 | $180**

SONGWRITER’S BLITZ (Grades 6-9)
Kick start your personal musical expression. Maybe you have a melody in your head, a notebook of lyrics or a chord progression that you keep playing; now is the time start piecing it all together. Harmony, lyric writing, melody, and song form are discussed and created in a fun, supportive environment. Singers and all other instrumentalists welcome. The class provides one guitar, one bass, one keyboard, and three microphones, and participants are encouraged and welcome to bring whatever instrument they are skilled at and comfortable with. Students should also possess the ability to play basic chords and/or notes. Class time will consist of one large group piece, small ensembles, and individual songwriting, and all players will receive a recording of their original works at the end of the session.

**DAVID SILVA** began playing guitar in 1986 and has enjoyed it ever since. He received a music degree from Chico State University with an emphasis on Classical Guitar, Voice and Composition and have also written, recorded and performed many styles of music including Classical, Rock, Jazz, Blues, Folk and Bluegrass. Currently he run a music program at the Live Musician’s Coop in Santa Rosa.

**JUNE 22-26 | 1-4pm | Carson Hall 68 | #1203 | $180**
ACTING OUT! IMPROV STUDIO (Grades 5-8)

In this fast-paced class, the focus is on improv using theater games similar to what you may have seen on Whose Line Is It Anyway? Discover the basics of staging, listening, giving focus, character development, space work, exploring genres, literature, some stage combat, dance, solo and ensemble work. With an arsenal of imaginative games and exercises, think quickly on your feet, build trust with your teammates and unleash your natural creativity and humor. Learn the do's and don'ts of improv, setting up a scene for your co-players, and using your “bag of tricks” while having loads of fun. We end the week with a comedy show for friends and family.

SHIRLEY JENNER  B.A. has been elementary teacher for almost 20 years. She was a GATE teacher for several years as well as an Odyssey of the Mind coach. Shirley has utilized and designed theatre and improvisation games and activities throughout the years to inspire and engage her students.

JULY 6-10  |  9am-12pm  |  Ives 76  |  #1204  |  $180

ADVANCED JR. BIOTECH A.M.  (Grades 6-9)

Jr. Biotech Advanced is a sequel to the Jr. Biotech course offered earlier in Session 1 and last summer. Extend your experience by building on already introduced principles. Solve two staged crimes. For the first, we will use indicators to identify specific biological macromolecules left at the crime scene. To solve the second crime, we will use DNA fingerprinting and agarose gel electrophoresis. Throughout the week, revisit the transformation of green fluorescent protein (GFP) into bacteria, this time purifying the GFP using two methods: column chromatography and SDS-PAGE gel electrophoresis. Study the rate of enzyme catalysis as you perform a chemical reaction that occurs during the production of biofuel. These are the same experiments that are being performed in upper level university Biology labs.

JACQUELYN GUILFORD  (see bio on page 7)

JULY 6-10  |  9am-12pm  |  Carson Hall Room 1  |  #1206  |  $195

DESTINATION RAINFORESTS: SCIENTIFIC ILLUSTRATION OF THE WORLD’S JUNGLES  (Grades 6-9)

Jump in and explore the jungles of the world, all their feathers, fur and fins -- using paintbrush, microscope, pen, and scratchboard! Create life-like art teeming with creatures and colors, while developing the sharp eyes of a scientist and an artist. Practice skills of observation useful in futures in the fields of both science and art. Collaborate to create a huge rainforest scene, and make your very own illustrated journal. Collect data for citizen science, research rainforest ecology topics including biodiversity, life cycles, and healthy forests for a healthy planet. Learn and use techniques of watercolor and gouache painting, sketching, drawing in colored pencil, pen and ink, and group collaboration.

KRISTA ANANDAKUTTAN  can be found at the intersection of art and science, walking with pockets full of found treasures, or peering into a microscope. She calls on her background in fine art, science (ecology and evolutionary biology), and science illustration every day. Her artwork is utilized by researchers, science journals and other publications.

JULY 6-10  |  9am-12pm  |  Art 130  |  #1205  |  $180
#SCREENTIME: SOCIAL MEDIA WORKSHOP (Grades 7-9)

Do you love using technology and social media? Take these skills and learn how to make a difference in the world and/or how to become an entrepreneur using social media. Find out which tools are right for whatever task you would like to accomplish. Discover how to set up your project/business correctly; stay safe online; and how to affect change. Platforms used in this process include: Facebook, Snapchat, Twitter, Youtube, Instagram, Pinterest, mobile devices and more. Pick a project, establish a strategy, set-up tools, and learn how to manage a social media campaign for change or to earn income. Learn about privacy and security settings, how to protect and build your online reputation, best practices, and about individual platforms.

**KERRY REGO** is a social media trainer, technology consultant, author, and speaker working with individuals, businesses, government, and non-profits. She educates people, implements tools, and trains staff on new media tools. Kerry is the Sonoma County social media staff trainer, SRJC Community Education instructor, and SSU Extended Education instructor.

**JULY 6-10 | 9am-12pm | Stevenson 2044 | #1208 | $180**

WOODSHOP FOR KIDS (Grades 4-6)

Wham, bang, hammer and saw. Here’s your chance to experience a real woodshop and discover skills that will last you a lifetime. Build great-looking projects out of wood that have real value. Use new wood, weathered wood, scrap wood, round and flat wood and transform it into a sturdy tool box, a charming bird house, and more. Learn to safely operate a variety of hand tools including hammers, saws, screwdrivers, vices, planes, and drills, and observe a demonstration of the big power tools in the SSU Woodshop. Walk away with some terrific projects and an “I can build it” attitude.

**MIKE MCGUIRE (see bio on page 8)**

**JULY 6-10 | 9am-12pm | Art 113 | #1209 | $195**

Serving children ten and younger, the Children’s Museum offers interactive, hands-on exhibits and experiences focused on art, nature and science.

For more information:

**cmosc.org**

E: info@cmosc.org

T: 707.546.4069


Site Address:

1835 W. Steele Lane
Santa Rosa, CA 95403
ADVANCED JR. BIOTECH P.M.  (Grades 6-9)

Jr. Biotech Advanced is a sequel to the Jr. Biotech course offered earlier in Session 1 and last summer. Extend your experience by building on already introduced principles. Solve two staged crimes. For the first, we will use indicators to identify specific biological macromolecules left at the crime scene. To solve the second crime, we will use DNA fingerprinting and agarose gel electrophoresis. Throughout the week, revisit the transformation of green fluorescent protein (GFP) into bacteria, this time purifying the GFP using two methods: column chromatography and SDS-PAGE gel electrophoresis. Study the rate of enzyme catalysis as you perform a chemical reaction that occurs during the production of biofuel. These are the same experiments that are being performed in upper level university Biology labs.

JACQUELYN GUILFORD (see bio on page 7)

JULY 6-10  |  1-4pm  |  Carson Hall Room 1    |  #1210  |  $195

CRIME BUSTERS  (Grades 4-6)

A dastardly crime has been committed. Act as a real life detective and distinguish truth from lie. A speck of dust, a strand of hair, trailing footprints, clues piling up, suspects are everywhere. Using a range of scientific techniques, unravel fact from fiction and determine who the true criminal is. Analyze and match fingerprints, test powders, examine fibers and hair, and of course, consider that note that was left behind. Increase your powers of observation as you identify and eliminate suspects. Think like an investigator and recreate the crime scene, mapping out the incriminating clues and use evidence to determine “Who did it?” By the end of the day you should have a strong case against the villain, or is it villains?

PAUL OSSERMAN is a fifth grade teacher at Brook Hill Elementary in Santa Rosa. He has been teaching students from elementary school to junior college for over 30 years.

JULY 6-10  |  1-4pm  |  Art 108  |  #1211  |  $180

SCI-ART: RAINFOREST WORLD  (Grades 4-6)

Jump in and explore the rain forests of the world, all their feathers, fur and fins – using a paintbrush! Create life-like art teeming with creatures and colors, while developing the sharp eyes of a scientist and an artist. Practice skills of observation useful in futures in the fields of both science and art. Collaborate to create a huge rainforest scene, and make your very own illustrated journal. Collect data for citizen science, research rainforest ecology topics including biodiversity, life cycles, and healthy forests for a healthy planet. Learn and use techniques of watercolor and gouache painting, sketching, drawing in colored pencil, pen and ink, and group collaboration.

KRISTA ANANDAKUTTAN (see bio on page 18)

JULY 6-10  |  1-4pm  |  Art 130  |  #1213  |  $180
INFORMATION DESIGNERS: IDEAS, GRAPHICS, AND DATA – VISUALIZED! (Grades 7-9)

Every day, every hour, every minute we are bombarded with information, from television, from newspapers, from the Internet, we’re steeped in it. We need a way to relate to it. Learn to distill the world’s data, information, and knowledge into a fresh, fun, and imaginative way with digital art and graphics. Identify information you want to demonstrate, collect data, group evidence, plan your space, create the artwork, and tell a story. Every design decision (font, shapes, color, scheme, and use of white space) will either contribute or detract with your overall message. Make an impact with infographics!

(example template above)
KERRY REGO (see bio on page 19)
JULY 6-10 | 1-4pm | Stevenson 2044 | #1212 | $180

TIME WARP TRAVELERS (Grades 4-6)

Join us as we journey through time and space. Each day enter a “time machine” to see where our next adventure begins. In ancient Egypt, practice the art of mummification, create a packing list for the afterlife, and make an amulet. Participate in a version of the ancient Greek Olympic games. While visiting Shakespearean England play a role in an epic battle on the stage. Join the Vikings as they raid Medieval Europe. Learn how to talk like a pirate and follow the clues to the missing “treasure” on the SSU campus. Assist the inventor, Leonardo da Vinci by constructing and testing a parachute using his drawings. Journey to Colonial America and build a kite to test scientific theories with Ben Franklin. Finally, design a “Museum of the Future” with recycled materials and your imagination.

ELIZABETH HENDRICKSON (see bio on page 17)
JULY 6-10 | 1-4pm | Art 102 | #1214 | $180
BLAST OFF! THE PHYSICS OF ROCKET FLIGHT (Grades: 4-6)

Learn to design, construct, and launch your own water bottle rockets. Explore the elements of force and motion, and understand the basics of rocket aerodynamics. Discover the effects of nose cone shape, stabilizer fins, air pressure levels, water levels, and counter weights as you test and improve your rocket. Create a compartment on your water bottle rocket that will carry a raw egg as a “payload,” then test multiple parachutes to safely aid in the soft landing and the recovery. Launch your rockets from a mini skateboard and measure the distance traveled in a straight line. At the end, parents and friends are invited to “blast off” Friday featuring a competition among launch teams.

MIKE WALLACE  M.A. in Education, B.A. in Biological Sciences, is a retired elementary school teacher who continues to work part-time at El Verano Elementary.

JULY 6-17 | 9am-12pm | Tech High 1026 | #1251 | $360

DIGITAL PHOTOGRAPHY (Grades: 7-9)

Imagine seeing the world in new ways and using your camera to creatively capture what you see. From people and pets to action and adventure; from telephoto to macro—explore what your camera can do, and how to take your photography to the next level. What are all those little symbols on your camera and what do the menu items mean? What are depth of field, aperture, shutter speed, and white balance, and how do you use them? How do you see things from different perspectives? Discover all this and more while taking photographs, both outdoors and indoors, around the SSU campus. Please bring your digital camera (ready to use), a USB cable for connecting to the computer, your camera’s User Manual (if possible), and a flash drive. Bring your ideas and your vision and take home your photos!

MURRAY ROCKOWITZ a noted Bay Area photographer and teacher has served private and commercial clients for over 25 years and has exhibited his photography extensively in museums and galleries.

JULY 6-17 | 9am-12pm | Schulz 1014 | #1215 | $360

KIDS IN THE KITCHEN (Grades: 5-8)

Imagine secret ingredients that you have never tasted, smelled, or seen before. As in the Food Network show Chopped, use your inventiveness to cook up culinary creations using a combination of mystery ingredients. Work together to make kid–friendly masterpieces including mouth-watering appetizers, delectable soups, tasty sandwiches, delicious salads, flavorful entrees, and (of course) yummy desserts. Learn all kinds of cooking technique—including indoor and outdoor cooking, how to prepare and handle food; nutrition and healthy eating; and cooking techniques and tips. Choose ingredients on a field trip to a local market. A cookbook featuring the recipes created by you and other young chefs in the class will be distributed to take home on the final day. Parent drivers needed for a field trip.

ADAM LITTLEFIELD is currently the principal of San Marin High School. He has over 25 years of experience as a teacher and administrator with a special interest in STEM (Science, Technology, Engineering, and Mathematics).

JULY 6-17 | 9am-12pm | Tech High 1027 | #1226 | $380
SUMMER CLAY STUDIO (Grades: 4-8)

Come and spend two weeks getting all fired up over clay! Let your imagination take shape, while exploring the world of ceramics. Learn to make functional and sculptural pieces using a variety of handbuilding techniques including slab, coil and pinch methods, as well as spending time learning to throw on the potter’s wheel. Then, decorate your pieces with textures, carvings, modeling, and colorful underglazes and glazes. Be part of Raku firings at the end of the session and join your team in meeting the challenges of the Clay Olympics. Everything you make will be fired for you to take home. Please bring an apron, your imagination, and a towel or two for clean-up. Due to time restraints, some pieces may not be fired by the end of class. Please plan to pick up additional pieces the following week.

LAUREL BEGLEY (see bio on page 8)

JULY 6-17 | 9am-12pm | Art Building 120 | #1227 | $380

VETERINARY ADVENTURES (Grades: 4-6)

Have you ever thought about being a veterinarian? Discover what veterinarians do and why it is so rewarding from a vet with over 50 years of experience. Visit a specialty group of 15 animal doctors and learn about the amazing procedures they use to make sick and injured animals well, including a veterinary radiologist who will show you x-rays and describe imaging techniques. Learn about pet hazards and the diseases of man and animals such as dog bites, why vaccines produce immunity and how your food is protected by our veterinary inspectors. How do animals digest their food and are their stomachs different from ours? On a field trip to a working sheep ranch, see sheep dogs in action, find out how lambs are born, sheep are shorn and feel and judge wool. Parent drivers needed for field trips.

FRED GROVERMAN, DVM from the School of Veterinary Medicine at U.C. Davis, started practicing in 1958 and has extensive large and small animal experience. He operates the sheep ranch in Petaluma where he was born and raised. His work with registered sheep production is recognized worldwide.

JULY 6-17 | 9am-12pm | Carson Hall 68 | #1228 | $360

To register go to:
www.sonoma.edu/exed/excel

or call
707.664.2394
EV3 LEGO ROBOTICS DESIGN AND COMPETITION (Grades 6-9)

EV3 Space Challenge dares students to build and program robots that complete a series of missions all set on Mars! Using LEGO's® most advanced and newest robotics technology -- the powerful MINDSTORMS® EV3 system -- teams of two, create multiple awe-inspiring Lego robots to achieve real world objectives. Our inspirations: the Mars Rover and comet lander, Philae. Plan, test, and modify robots to achieve timed mission challenges. Using ultrasonic, color, gyro and touch sensors, the robot interacts with its environment to collect specimens, navigate around large obstacles, create go-anywhere suspension to climb tough rocky terrain, and speed through the hard sand flats. Which team will be first? Which team will have the most accuracy? Teams will participate in a variety of challenges including a version of the Rube Goldberg Machine. 

DEANNA OLIVAREZ and LINDSAY HUNTER (see bio on page 11)

JULY 6-17 | 1-4pm | Schulz 2010 | #1225 | $380

FANTASY BASEBALL: STATISTICS AND PROBABILITY (Grades 6-9)

Play ball! Partner up with a fellow student to co-manage a team, receive an initial draft of players and construct a statistical comparison chart of your players. Engage in trade talks, a free agent draft and analyze statistics. Construct player wheels and simulate fantasy baseball games. Practice keeping score accurately and compiling end of game statistics. Participate in a 3 game exhibition season and play a 10-20 game season where you try to play every other team in the class at least once. At the end of the season you will do a final compilation of you players' statistics and compare your results with your season predictions and original player charts.

AARON SHREVE is a middle school math and science teacher at Brook Haven Middle School, where he has been teaching for 12 years. He is a third generation educator, and second generation math teacher.

JULY 6-17 | 1-4pm | Salazar Hall 2015 | #1229 | $360

FARM TO TABLE (Grades 4-8)

Imagine secret ingredients that you have never tasted, smelled, or seen before. As in the Food Network show Chopped, use your inventiveness to cook up culinary creations using a combination of mystery ingredients. Work together to make kid-friendly masterpieces including mouth-watering appetizers, delectable soups, tasty sandwiches, delicious salads, flavorful entrees, and (of course) yummy desserts. Learn all kinds of cooking technique—including indoor and outdoor cooking, how to prepare and handle food; nutrition and healthy eating; and cooking techniques and tips. Choose ingredients on a field trip to a local market. A cookbook featuring the recipes created by you and other young chefs in the class will be distributed to take home on the final day.

Parent drivers needed for a field trip.

ADAM LITTLEFIELD (see bio on page 22)

JULY 6-17 | 1-4pm | Salazar Hall/Tech High School 1027 | #1230 | $360
KITCHEN CHEMISTRY (Grades 5-8)

Did you ever realize that there is amazing science happening everyday in your very own kitchen? Explore the chemistry behind cooking and take your kitchen skills to the next level. Learn the secret to making ice cream, and top your masterpiece with your very own yummy caramel sauce. Every wonder what makes marshmallows so bouncy and why they blow up in the microwave? Investigate the science behind marshmallows first hand. We will also learn about candy making through experimentation with chocolate and sugar. Healthy foods won’t be excluded; we will test to see if anybody is a supertaster and discuss how that might affect his or her feelings towards veggies. Then we will see if we can use science to make our veggies more appealing. Finally, examine the tasty effects of acid-base chemistry through the creation of your very own cookies. All of our experiments can easily be shared with family and friends, and taste testing is strongly encouraged.

JENNIFER CASEY Ph.D., is a Visiting Professor in the Chemistry Department at SSU. She received her doctorate from UCLA. Dr. Casey is the 2009 recipient of the Hanson-Dow Excellence in Teaching Award from the Chemistry and Biochemistry Department at UCLA where she has taught since 2007.

JULY 13-17 | 9am-12pm | Stevenson 2055 | #1218 | $180

MULTIMEDIA ACADEMY (Grades: 6-9)

Grab the elements of multimedia and mix them up on the computer using multimedia-rendering software! Edit and convert pictures and movies, add music, special effects, and then share your creations across various Web 2.0 sites. Produce podcasts and embed widgets while discovering a wide variety of great websites and resources for future use. Learn the in-depth functionality of Google Docs (including Documents, Forms, Spreadsheets, Presentations, and Drawings) as well as Google Sites. Make your presentations stand out with Prezi, a cloud-based software and storytelling tool for presenting ideas on a virtual canvas. Bring your creativity and a camera if you’ve got one (though not required). Parents please note that students will need an email account and access to online services.

STEVE GIBBS M.A., in Educational Technology, has been teaching high school English, filmmaking, and technology in Benicia for 25 years.

JULY 13-17 | 9am-12pm | Stevenson 2055 | #1224 | $180

STAR WARS: MAY THE FARCE BE WITH YOU (Grades: 4-6)

In a galaxy far, far away........well- maybe not that far. Join the cast of this wacky, reinvented version of Star Wars! Princess Ladle has been captured by Dart Invader. She left the front door key of her castle under the door mat. Can Luke Skyscraper, Ham Sandwich, Oldie Van Moldie and Chew Chocky save her from Dart’s evil plans? Who will win the showdown between good and evil? (do kids like cookies?) Be prepared to have a galactic blast rehearsing scenes from this madcap misadventure straight from the comic command center. The force will be with as you perform for parents and friends on the last day.

RAYMOND SKIPP (see bio on page 6)

JULY 13-17 | 9am-12pm | Ives 76 | #1219 | $180
AGE OF THE DINOSAURS (Grades 4-6)

Become a dinosaur expert and discover the Age of the Dinosaurs from a Geologist! Each day study how dinosaurs lived and died. Learn about geologic time, fossil formation, Pangea Supercontinent, the Mesozoic Era, natural disasters, and how to identify dinosaurs. Answer such questions as, “When did dinosaurs live? Where did dinosaurs come from? How long did dinosaurs live? What did they eat? Why did some of them get so big?” And of course, “Why did dinosaurs go extinct, or did they?”

NICOLE MYERS  M.S. in Geological Sciences, developed a passion for geology from a childhood fascination with volcanoes. She has taught geology, paleontology, meteorology, climatology, oceanography and astronomy classes for five years. She currently teaches at SSU.
JULY 13-17  |  1-4pm  |  TBD  | #1220  | $180

ART OF ARGUING (Grades: 7-9)

“Why is homework necessary?” “Why do we have assigned seats?” “Why can’t we talk?” “Why?” “Why?” “Why?” People are naturally inquisitive and sometimes quite spirited “know-it-alls.” Use your natural talent of arguing and challenging authority to voice your opinions freely and dynamically. Debating enables you to express yourself, think strategically and persuade others. Great debaters select a topic and take a stand, research and gather facts, pick a moderator, ensure both sides take part, design opening and closing statements and reflect on what happened. Working cooperatively, brainstorm ideas and increase your understanding of other’s views. This class will strengthen your self-confidence and prepare you for leadership in the real world.

HARMONY GOOCH teaches English and History to 6-8 grades at RVCS in Santa Rosa. She has taught overseas at the Shanghai American School for several summers.
JULY 13-17  |  1-4pm  |  Stevenson 3088  | #1221  | $180

HARRY POTTER AND THE DEATHLY HOLLOW (Grades: 5-8)

Does Harry get revenge on the man who slew his parents—or does “he who cannot be named” finally put an end to Harry? Act out the electrifying final scenes from one of the world’s most beloved adventures in this performing arts workshop. Portray the quest of Harry, Hermione, and Ron as they battle Voldemort and the Death Eaters. There are new characters to explore—Lupin the Werewolf, Mad-Eye Moody, Mundugus Fletcher, and Bathilda Bagshot. Work on all of the decisive, concluding scenes culminating in the ultimate showdown between good and evil. There will be a performance at the end of the workshop for friends and family to enjoy. Warning: Beware of Nagini!

RAYMOND SKIPP (see bio on page 6)
JULY 13-17  |  1-4pm  |  Ives 76  | #1223  | $180

IT’S A MULTIMEDIA WORLD (Grades: 4-6)

Use ordinary software to create extraordinary things! Capture images for stop-action videos with digital cameras and transform them into special-effects movies. Produce your own animated cartoons and living stories using PowerPoint’s advanced features. Build your very own Wiki (free website) to upload and share your creations with the world. By the end of the week, take home a variety of multimedia creations: slideshows, cartoons, movies, and widgets, to show others and keep forever. It is helpful (but not mandatory) if students have their own email and parent permission to join a few animation-based websites. Parents who prefer to can join for their child and provide them with the login and password.

STEVE GIBBS (see bio on page 25)
JULY 13-17  |  1-4pm  |  Stevenson 2055  | #1217  | $180
WATER WONDERS (Grades: 4-6)
JULY 20-24 | 9am-4pm | Salazar Hall/Tech High School 1027 | #1231 | $380

WATER AS A FORCE OF NATURE
Learn about weather and water-related natural disasters from an earth scientist! Each day delve into a new natural disaster that occurs on planet Earth, including flooding, mudflows, tsunamis, tornados, and hurricanes. Working in teams, build landscape models and create small-scale natural disasters in the classroom. Simulate a thunderstorm, replicate the forces that cause tsunamis, make a mini-mudflow and reproduce a tornado.

SPASH ZONE ILLUSTRATION
Dive in and explore California’s own marine ecosystems, from tide pools to kelp forests—“using a paintbrush! Create lifelike art teeming with creatures and colors, while developing the sharp eyes of a scientist and an artist. Start each day with creature profiles and use such art techniques as watercolor washes, field sketching, and fine pen and ink.

WATER INNOVATIONS
Explore the creative ways humans have found to harness the power of water. Discover the amazing ability of the ancient Greeks to move water uphill and how the Romans developed ways to transfer water over long distances. Discover how to change buoyancy by building a Descartes Diver. Experiment with different materials to design a boat that would survive an ocean storm. Create a model of your own underwater hotel. Finally, what would you do if there were no clean water to be found anywhere?

On Friday, July 24 the students will be taking a field trip by bus to the Sonoma Coast.

NICOLE MYERS, M.S. in Geological Sciences, developed a passion for geology from a childhood fascination with volcanoes. She has taught geology, paleontology, meteorology, climatology, oceanography and astronomy classes for five years. She currently teaches at SSU and SRJC. ELIZABETH HENDRICKSON grew up in a family of scientists and strong readers, and developed a passionate curiosity about the world. Besides her love for science, she has a strong background in drama, building, and the creative arts. She has been an elementary school teacher for nine years, and is currently teaching 5th grade in Santa Rosa. KRISTA ANANDAKUTTAN can be found at the intersection of art and science, walking with pockets full of found treasures, or peering into a microscope. She calls on her background in fine art, science (ecology and evolutionary biology), and science illustration every day. Her artwork is utilized by researchers, environmental preserves, science journals, and other publications.
INVENTOR’S WORKSHOP (Grades: 4-6)
JULY 20-24 | 9am-4pm | Carson Hall 68 | #1232 | $380

RUBE GOLDBERG CHALLENGE
It’s time to bring out the architect/inventor/dreamer/builder in you -- create a Rube Goldberg machine. Rube Goldberg was a cartoonist who figured out how to draw cartoons of chain-reaction devices that completed a simple task in unusual and complicated ways. Working in teams, and given tools, everyday household items, and recyclables, design and create a machine with a minimum number of steps to meet the challenge. Thinking outside the box is required!

ARCADE-O-RAMA
Low tech is fantastech and cardboard is cool! Every kid enjoys playing games and every kid knows the best fun is the fun you create for yourself! So, unplug, get off the couch, and get ready to use your mind and hands’cause we will be building an actual arcade. That’s right, we’re using what we can find: scavenged cardboard from local businesses and all means of attachment: string, tape, wire, zipties, and paint to construct a gaming paradise. Inspired by the You Tube video sensation, “Caine’s Arcade”, each class well spend the week designing, creating, and building an actual arcade to be enjoyed by all!

THE GREAT RACE – HYBRID VEHICLES
Join us as we design and build the cars of the future! Think outside of the box by powering your car by non-electrical or gasoline energy. Instead, focus on potential energies such as springs, rubber bands, balloons, and the gravitational power of water. Using the Engineering Design Cycle to build a prototype, then test and redesign your vehicle. Finally, test your cars for maximum velocity, distance travelled, and largest load carried.

NELSON “BUZZ” KELLOGG, Ph.D., is a retired professor of the Hutchins School of Liberal Studies at SSU, where he taught for over 20 years. He has an undergraduate degree in physics, and a doctorate, from Johns Hopkins University. He has been a fellow of the I.E.E.E. (Institute of Electrical and Electronic Engineers), Princeton University, and was a predoctoral fellow at the Smithsonian.

AILEEN CORMACK, B.A. in Fine Art, is a professional sculptor and has been exhibiting her work for over 20 years. She is represented locally in the nationally acclaimed DiRosa Preserve in Napa. She has over 10 years of experience teaching art to children and has worked with the Santa Rosa City School District, Parkside Elementary in Sebastopol, and most recently as a visual art specialist at Steele Lane Elementary in Santa Rosa.

NICK WILLIAMS teaches physics, engineering, and AVID (Advancement Via Individual Determination) at San Marin High School. He’s the teacher-leader of their STEM Marin program and the Science Department Chair. Prior to teaching, he worked as an environmental monitor in Sacramento and a summer camp director near the Russian River. Nick earned his Bachelor of Science in Evolution and Ecology, his Teaching Credential in Science, and his Masters of Education from UC Davis. He was selected as the 2014 Bay Area Educator of the Year by the California League of High Schools.
EXCEL FOR YOUTH GUIDELINES

Guidelines and the Code of Conduct are mailed home to each student and parent prior to class as part of the “student packet.” Once enrolled in the EXCEL program, students and parents are asked to read the guidelines and code of conduct together and return a signed Code of Conduct to their instructor on the first day of class.

BEHAVIOR
EXCEL students are expected to be respectful of campus equipment and property. When students are inside a building, they must keep their conversations quiet, not run in the halls, and not play with equipment such as elevators or automatic door openers. When students are in class, it is important to remember that other students are also trying to learn and that they must behave with respect toward each other and the teacher. A teacher has the right to ask students to leave his/her class if they are acting in a way that interferes with other students’ work or is inappropriate. If students do not change their behavior after they are asked to do so, they may be asked to leave the program. Students asked to leave for disciplinary reasons will forfeit all tuition and fees. No cell phone or smart phone usage is allowed during class time except in case of emergency.

LIABILITY
When students are working with sensitive equipment in class (i.e., computers, microscopes, potter’s wheel, or other equipment) they must follow directions and safety rules to prevent accidents. Parents are responsible for costs to repair any damages to the equipment that students may cause, either intentionally or through reckless behavior.

OUTDOORS
The duck pond is in an area that is not safe to play unsupervised and is designated as “off-limits.” Students always need to stay with their class when on campus.

EXCEL PROGRAM MANAGER: CATHY ENGLAND
Earning her B.A. from the SSU Hutchins School and an M.A. in Interdisciplinary Studies with an emphasis in Education and Psychology from Sonoma State, Cathy offers an integrative approach to teaching and learning. For over 10 years she has been actively involved in a wide range of K-8 educational roles including, curriculum development, project-based learning implementation, leadership and administration. Cathy is a former instructor for EXCEL at SSU, an adjunct faculty member at SSU, and currently operates Story Tree Studios, an after school enrichment program for youth in Sonoma County.
ADDITIONAL INFORMATION

LUNCH BUNCH
As a service for EXCEL students, there will be lunch supervision provided at no charge during the noon hour for those enrolled in both morning and afternoon classes. The “Lunch Bunch” meets on the lawn between the field house and Salazar Hall (see map on page 3).

At lunch time students are required to check-in with the lunch supervisor first thing everyday. Students must stay within the Lunch Bunch area. Please have students bring a sack lunch and a snack from home. Students will not be permitted to leave the supervised area and buy food elsewhere on campus. Parents may take students away for lunch by signing out their child with the Lunch Bunch supervisor. Please feel free to send a game for students to share or a book to read.

ABSENCE
Parents must call the office before class begins if a student is going to be absent. The phone number is 707-664-2645 (voicemail available).

FIELDTRIPS
Certain classes take trips off campus to enhance learning. Parents are needed to drive to these locations. Parent volunteer drivers need to register with the School of Extended Education office in Stevenson 1012 prior to class start up, and need to show license and proof of insurance.

FORMS
Applicable forms must be completed and returned to the class instructor on the first day of classes. You can find the following forms online at www.sonoma.edu/exed/excel.

- Fieldtrip Forms--One for each applicable class.
- Special Release Form--Use only if child bikes, buses, or walks home or to an SSU office.
- Medical History Form--Only if "Yes" is marked on registration form.

T-SHIRTS
Each EXCEL student will receive one t-shirt per year.

OPEN HOUSE
Most of our classes put on an open house the last half hour of the last class; drama class open houses are usually longer. Please check with each teacher for details; times vary.

REFUNDS: A $25 nonrefundable processing fee is deducted for each class dropped up until two weeks prior to class start. NO refunds are given if canceling within 2 weeks of the first day of class.
Name of Child’s Health Plan____________________  ______  Membership Number______________

Family Physician __________________________________   Phone # (          )________________

Special needs or physical conditions?   Yes❑  No❑

If yes, it is required to arrange a meeting with the Excel Coordinator, Cathy England, either by phone or in person.

Medical problems, including allergies or special medications?   Yes❑  No❑

If yes, please explain ________________ (Inhalers, special medicine or bee sting kits must be carried by students at all times).

In the event of a health-related emergency, I authorize a staff member of Extended Education to take my child either to the above named physician, the on-campus Health Center, or the nearest Emergency Hospital for treatment and emergency measures deemed necessary for the safety and protection of my child. As a parent, I agree to be responsible for costs to repair any SSU equipment damaged by my child, either intentionally or through reckless behavior. I also take responsibility for my child to comply with the EXCEL guidelines.

Signature of Parent or Legal Guardian_____________________________  Date _______________

Please note order of notification:

Mother’s Name__________________________ Work #______________  Home #___________

Father’s Name___________________________ Work # _____________  Home #___________

Designated Responsible Adult other than parents: _______________________________________

Relationship to Child _____________________________   Phone # ______________________

Special needs or physical conditions? Yes❑  No❑

If yes, it is required to arrange a meeting with the Excel Coordinator, Cathy England, either by phone or in person.

Medical problems, including allergies or special medications? Yes❑  No❑

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FOR OFFICE USE ONLY

Initials __________________   Cash_______Check________ Visa/MC_________________

Other __________________ Total Paid $_________________  By_________Date_________

Make CHECKS payable to: SSU
EXCEL for Youth
Celebrating 33 Years!

Let EXCEL Inspire You This Summer!