

COURSES

ER 70 Fall Classes

Draft as of June 19, 2016

AM 1st 5 weeks	PM 1st 5 weeks	AM 2nd 5 weeks	PM 2nd 5 weeks
Data Analysis (A) EKB PS Becky, Kira	Coaching CHLC Anna, Cordell	Data Analysis (B) EKB PS Becky, Kira	Robotics EKB Becky, Kira, Josán
Riverwatch CHLC Jon	Piano Station EC Meg, Josue	Mockingbird EKB Brett	Internships LFJ/various Jon
Harlem Renaissance EGC Cindy, Eriq, Maria	Creative Non-Fiction EC Brett	Woodshop EC John	Astronomy EKB Sara, Alexus
Neuroscience (A) CHLC PS Sara, Alexus	Illusions (A) EC PS Cindy	Neuroscience (B) CHLC PS Sara, Alexus	Illusions (B) EC PS Cindy
Borders Fronteras (A) EGC PS Josán	Rebels with a Cause (A) EGC PS Eriq, Fellow	Borders Fronteras(B) EGC PS Josán	Rebels with a Cause (B) EGC PS Eriq, Maria
Other Worlds EC Brett	Natural Building EGC John	Human Sexuality CHLC Jen	Theater Tech EC Meg, Josue
			Lifeguarding CHLC Anna, Cordell



Neuroscience	ER70	• Morning 10 Weeks	Science Lab
Instructor(s): Sara Benge Alexus Bell			
<p>In this course, we will be exploring the inner workings of the human brain. After studying brain anatomy and physiology, we will learn about how the brain responds to and is affected by specific substances including, alcohol, marijuana, and prescription pills. We will then explore how 'natural highs' – exercise, meditation, food, sex, music, adventure – can be healthy alternatives that stimulate specific, desired responses in the brain. In addition, we will collect and analyze data in order to make predictions about our own lives. That means the power standard, people!</p>			
Power Standard Course: Yes Creating Healthy Life Choices			
Distribution Requirement: Creating Healthy Life Choices		Credit(s): 2	Credit(s):
Required Experience(s):			
Traditional Disciplines: Science: Biology			

Astronomy	ER70	• Afternoon 2nd 5 Weeks	Science Lab
Instructor(s): Sara Benge Alexus Bell			
<p>Do you ever look up into the night sky and wonder what's up there? In this class, we will explore the features and origins of some of the most amazing occupants of the universe: galaxies, stars, moons, planets, black holes, comets and asteroids. We will learn about the theory of gravity and how it affects objects in space. We will also take night sky walks and learn how to identify prominent constellations using the naked eye. The class will culminate in an independent research project to dig deeper into a specific space phenomenon of your choice.</p>			
Power Standard Course: No			
Distribution Requirement: Expanding Knowledge Base		Credit(s): 1	Credit(s):
Required Experience(s):			
Traditional Disciplines: Science: Earth			

Data Analysis	ER70	• Morning 10 Weeks	Kinnikinnik
Instructor(s): Becky Poore Kira Faller			
<p>In this class, you will explore data sets, looking for patterns and using statistics to answer student-generated questions. Each of you will explore one overarching question, and will research data that will help you answer that question. You will analyze the data and use it to communicate your new knowledge using infographics, written articles, presentation, or blogs. Experts in the field, peers, and ER staff will review your work and provide feedback to you as a means to revise your work and get better and better!</p>			
Power Standard Course: Yes Expanding Knowledge Base			
Distribution Requirement: Expanding Knowledge Base		Credit(s): 2	Credit(s):
Required Experience(s):			
Traditional Disciplines: Math: Statistics English			





River Watch Citizen Science	ER70	• Morning 1st 5 Weeks	Anemone
Instructor(s): Jon Anderson			
<p>Do you know what makes a river healthy? Are you interested in learning how to fly-fish? In this class, we will explore rivers and their health while engaging in the art of fly-fishing. We will collect both water samples and macroinvertebrates (bugs) of the Big Thompson River. We will analyze these samples which will help us to determine the river's health. Our data will then be used by both the Division of Wildlife and the Big Thompson Watershed Forum to develop and maintain water quality standards. Students interested in this class will be expected to be outside 2-3 days a week (in all kinds of different weather!) and to learn about and participate in fly fishing and river water collection. Students should also expect to get lunch KP covers throughout the five weeks.</p>			
Power Standard Course: No			
Distribution Requirement: Creating Healthy Life Choices	Credit(s): 1		Credit(s):
Required Experience(s):			
Traditional Disciplines: Physical Education Science: Biology			

Harlem Renaissance	ER70	• Morning 1st 5 Weeks	Chroma and
Instructor(s): Cindy Elkins Eriq Acosta	Maria Myers		
<p>Study a time and a in place Harlem, NY 1919-1935, thru the eyes, ears, and senses of some of the brightest minds of the 20th century. A renaissance is a rebirth, theirs preempted by freedom, expressed with bold colors, strong voices, and passion launched a culture and was the foundation for the civil rights movement. Peel back the layers of time, discover the bloom that led the way for creative growth around the world. Inspire yourself to create in a variety of ways via art, music, dance, poetry all while exploring History. Unlock your latent talents and nurture your artist within.</p>			
Power Standard Course: No			
Distribution Requirement: Engaged Global Citizen	Credit(s): 1		Credit(s):
Required Experience(s):			
Traditional Disciplines: History: US Visual Art English			

Coaching	ER70	• Afternoon 1st 5 Weeks	
Instructor(s): Anna Magle-Haberek Cordell Church			
<p>What makes a good coach good? What do they do (and not do?) In this class you will get an opportunity to learn what differentiates a good coach from a not-so-good coach and practice your skills hands on coaching soccer with grade school students. You will have the opportunity to refine your soccer skills, while becoming a skilled coach for the Estes Park Youth Soccer League! We will learn how to work with children at different ages, receive feedback on our coaching and our coaching lesson plans, and learn how to transfer our coaching skills to a variety of sports and fitness. Interested students should be prepared to coach soccer two afternoons a week (in a variety of different weather conditions) and to coach games on Saturday mornings. Lastly, you'll need both dinner and breakfast KP covers.</p>			
Power Standard Course: No			
Distribution Requirement: Creating Healthy Life Choices	Credit(s): 1		Credit(s):
Required Experience(s):			
Traditional Disciplines: Physical Education Physical Education			





Piano Studio	ER70	• Afternoon 1st 5 Weeks
Instructor(s): Meghan Tokunaga-Scanlon Josue Quintana		
<p>Have you ever wanted to learn how to play that song you heard on the radio, write your own music, or tackle your fear of performance? The Piano Studio will provide opportunities for students to start or continue learning how to play the piano. Students will receive training in piano technique, music reading, basic music theory, and basic composition. In turn, you will apply your knowledge and skills by learning and performing various pieces and songs ranging from classical to popular at your performance level. Musical skills are taught on electric keyboards where students can learn at their own pace. Students will learn individual pieces that will be performed for the class, will perform with other students in the class, and also a culminating performance in a music gathering for the community.</p>		
Power Standard Course: No		
Distribution Requirement: Effective Communication	Credit(s): 1	Credit(s):
Required Experience(s):		
Traditional Disciplines: Music		

Creative Non-Fiction	ER70	• Afternoon 1st 5 Weeks
Instructor(s): Brett Youngerman		
<p>How do great writers tell effective stories from real life? How can you be "creative" while still being true to real life? In this class you will read various forms of non-fiction writing, from journalism, memoir, biographies, and more. You will analyze what makes for effective non fiction writing and learn how to craft your own.. We will explore more personal writing through memoirs and poems, and a more public side in literary journalism or "big idea" stories. Come learn how to turn your real life stories into creative pieces of art!</p>		
Power Standard Course: No		
Distribution Requirement: Effective Communication	Credit(s): 1	Credit(s):
Required Experience(s):		
Traditional Disciplines: English		

Illusions	ER70	• Afternoon 10 Weeks	Chroma
Instructor(s): Cindy Elkins			
<p>Take a trip through history with art studying how and why humans created illusions to tell their stories. Learn from a variety of visiting artists, discovering how they express meaning with their work. While exploring a variety of materials, you will be discovering what media you want to create in for your power standard work. Plan on traveling several days to experience first hand artist's studios, galleries, and museums while analyzing the magic of creating. Bring an open mind and a creative spirit to this multi-dimensional course. Sewing, painting, glasswork, wood, metal work, and more will be explored!</p>			
Power Standard Course: Yes Effective Communication			
Distribution Requirement: Effective Communication	Credit(s): 2	Credit(s):	
Required Experience(s): Legacy Project and Reflection			
Traditional Disciplines: Visual Art English History: World			
Legacy credit is optional in this course.			





Rebels with a Cause		ER70	• Afternoon 10 Weeks	Yarrow
Instructor(s): Eriq Acosta Maria Myers				
<p>Many of us HEAR about legends in History; Muhammad Ali, Che Guevara, Rosa Parks, Harriet Tubman, Mother Teresa, Mahatma Gandhi, but DO WE REALLY know who they are and what they did? Do we know what they gave up and or sacrificed for the cause they believed in? We will analyze and explore in depth the sacrifices these individuals made to do what they believed in, so much that many died for it.</p>				
Power Standard Course: Yes Engaged Global Citizen				
Distribution Requirement: Engaged Global Citizen		Credit(s): 2	Credit(s):	
Required Experience(s):				
Traditional Disciplines: History: World History: US				

Internships		ER70	• Afternoon 2nd 5 Weeks	Anemone
Instructor(s): Jon Anderson				
<p>The Eagle Rock School Internship Program will expose you to a career field of interest and provide you with a unique and individual experience that you cannot receive from the typical classroom experience. You will develop skills and knowledge that you need in order to have success in the workplace. This career focused internship experience (chosen by you!) is an unpaid experience that allows you to become directly involved in a workplace setting. The program will give you an avenue to apply the skills you learn in the classroom to real world work situations. Lastly, this internship could help you identify a type of career you want to pursue in the future.</p>				
Power Standard Course: No				
Distribution Requirement: Leadership For Justice		Credit(s): 1	Credit(s):	
Required Experience(s):				
Traditional Disciplines:				

Connections in Wood		ER70	• Morning 2nd 5 Weeks	Redwood
Instructor(s): John Guffey				
<p>Learn the art and craft of woodworking while completing a service-learning project to benefit of Eagle Rock School. Shape, join, sculpt and finish a useful and aesthetically pleasing 3D project. Develop your sense of design, proportion, line and detail. Learn and apply skills in problem solving, layout, measurement, care and use of tools, cooperation and time management. Become familiar with wood, its charms and challenges, and with other materials, tools and styles of creativity. Engage the experience of a master woodworker, through research and presentation of an art history project.</p>				
Power Standard Course: No				
Distribution Requirement: Effective Communication		Credit(s): 1	Credit(s):	
Required Experience(s): Service Project and Reflection		Legacy Project and Reflection		
Traditional Disciplines: Visual Art Math: Geometry				





Borders Fronteras – Identity and Immigration Stories ER70 • Morning 10 Weeks Cinquefoil

Instructor(s): Josán Perales

In this course, you will explore your own identity through the lens of the U.S.-Mexican border and the human stories from the line between us. Learn and reflect on the visible and invisible borders we each confront every day. Learn Spanish to build bridges between people and community, talk about yourself and ask about others, compare and contrast opposing points of view, and write from multiple points of view. During the first 5-weeks you will dive into the world of migration and identity, formulating your own informed perspectives, while learning to communicate in Spanish. During the second 5-weeks, you will explore your own identity and different perspectives through poetry, culminating in a performance poem in 2-voices. Pending on community resources, you will also engage in a community intercultural café, gathering frequently with ESL (English as a Foreign Language) community members trying to learn English. Through this, you will cross cultural bridges within the Estes Park community, practice your Spanish speaking skills, and help others learn English.

Power Standard Course: Yes Engaged Global Citizen

Distribution Requirement: Engaged Global Citizen

Credit(s): 2

Credit(s):

Required Experience(s):

Traditional Disciplines: World Lang: Spanish History: US

Robotics ER70 • Afternoon 2nd 5 Weeks Kinnikinnik?

Instructor(s): Becky Poore
Kira Faller Josán Perales

In this class you will build robots. In the last 10 years alone, we have seen the rise of smart phones, drones, self-driving cars, and the first computer to beat a world-ranked Go player. There is a growing industry around computer technology – both software (computer coding) and hardware (mechanical and electrical engineering). Beyond job opportunities, there is a novelty to robots, and a joy to solving a tricky problem, through all of the roadblocks.

To meet the weekly challenges, your team will learn about both computer coding and electronic circuits. You will need to this knowledge, combined with problem solving, creativity, attention to detail, and a constant process of testing and redesigning your robot to meet the challenges.

Power Standard Course: No

Distribution Requirement: Expanding Knowledge Base

Credit(s): 1

Credit(s):

Required Experience(s):

Traditional Disciplines: Math: Algebra Science: Physics

Theater Tech ER70 • Afternoon 2nd 5 Weeks

Instructor(s): Meghan Tokunaga-Scanlon
Josue Quintana

Ever wonder what goes on backstage to bring productions and story to life? Theatre Tech is designed to provide students with a basic understanding and practice of various jobs in theatre production and how to use a script to make intentional, artistic choices. This class is an introduction to the methods of set design and construction, properties design and construction, lighting and sound, costumes, publicity, and directing. You will be paired with a professional mentor to learn the skills required to create a show and implement them towards the ERS winter musical.

Power Standard Course: No

Distribution Requirement: Effective Communication

Credit(s): 1

Credit(s):

Required Experience(s):

Traditional Disciplines: Performance





Lifeguarding	ER70	• Afternoon 2nd 5 Weeks
Instructor(s): Anna Magle-Haberek Cordell Church		
<p>Lifeguarding is one of the most popular part-time jobs for high school students, and a well-paying job that is transferable to any area you live in. If you're ready to take your aquatics skills to a whole new level this is the challenge for you! This class will give you the opportunity to set new goals and work on improving your comfort and skills in the pool. In this class we'll take a look at the role of a lifeguard, the components of a rescue, pool safety, risk management, and rescue skills. We'll also work on our First Aid & CPR skills, looking at different first aid scenarios and situations. Successful completion of the course may lead to certification in First Aid & CPR with the Red Cross, as well as possible Lifeguard certification. We will swim every day, so be ready to be in the pool! If you have limited swimming experience, see Anna before enrolling in this course!</p>		
Power Standard Course: No		
Distribution Requirement: Creating Healthy Life Choices	Credit(s): 1	Credit(s):
Required Experience(s):		
Traditional Disciplines: Physical Education Health		

Other Worlds	ER70	• Morning 1st 5 Weeks
Instructor(s): Brett Youngerman		
<p>You will explore the landscapes of deep space, ancient kingdoms, and alternate realities as you read and analyze literature and film from the science fiction, fantasy, and dystopian genres. We will explore the elements that authors and directors use to transport their audience from this world into another. Throughout the course you will craft your own fictional world by writing your own short stories.</p>		
Power Standard Course: No		
Distribution Requirement: Expanding Knowledge Base	Credit(s): 1	Credit(s):
Required Experience(s):		
Traditional Disciplines: English		

Mockingbird	ER70	• Morning 2nd 5 Weeks
Instructor(s): Brett Youngerman		
<p>The novel To Kill a Mockingbird tells a story of justice, judgment, and morality, as well as family, gender, and race. It is a story that prompts us to reflect on our own moral compass and our place in the community where we live. In the "Mockingbird" course you will analyze the moral growth of the novel's main characters, and then reflect on the moral growth that has occurred in your own life. Throughout the course, you will return to a central question: What kinds of experiences help us learn how to judge right from wrong? your thinking about this question will be deepened by examining primary source documents and other relevant media from the time and place of the novel (the depression era South). At the end of the course you will have the chance to write your own moral and ethical code which you can use during your graduation trimester presentation.</p>		
Power Standard Course: No		
Distribution Requirement: Expanding Knowledge Base	Credit(s): 1	Credit(s):
Required Experience(s):		
Traditional Disciplines: English History: US		





Human Sexuality **ER70** • **Morning 2nd 5 Weeks**

Instructor(s): Jen Frickey

In this class we'll explore sex and sexual health from many different perspectives, but this won't be your typical sex-ed class. We'll look closely at sexuality through different media - newspaper, magazine, websites, documentaries, film, fiction and non-fiction and improve our reading, writing, and thinking skills in the process. There will be a focus on using stories and experiences from people around the world to better understand sexuality and healthy relationships, and we'll use digital recording and podcasts as a way to share stories and information to help inform others about this important topic. Join this class for an in depth and critical look at the role that sexuality plays in our lives and society, and what your role can be in furthering public discourse on this relevant and timely issue!

Power Standard Course: No

Distribution Requirement: Creating Healthy Life Choices

Credit(s): 1

Credit(s):

Required Experience(s): Human Sexuality

Traditional Disciplines: Health

Natural Building **ER70** • **Morning 1st 5 Weeks**

Instructor(s): John Guffey

Engage in the art and craft of natural building with wood, straw, stone and earth. In this class we will mix mud plasters and finish the straw bale hut on campus! We will design and construct additional improvements in the Eagle Rock outdoor classroom area. We will practice problem solving, care and use of tools, creative design, planning, and collaboration at the work site. We will become familiar with building materials and with the tools and styles of straw bale builders and associated sustainable practices. We will study natural building from a historical perspective, with each student completing a brief research paper and presentation on a practitioner or selected aspect of natural building.

Power Standard Course: No

Distribution Requirement: Engaged Global Citizen

Credit(s): 1

Credit(s):

Required Experience(s):

Traditional Disciplines: English History: World Visual Art

