## ER 71 Winter Classes

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AN INITIATIVE OF THE AMERICAN HONDA EDUCATION CORPORATION

www.eaglerockschool.org
Research  
**Instructor(s):** Brett Youngerman  
Aaron Segura

In this class, you will investigate and research a topic you are curious about, steadily progressing from a novice to an expert in that particular field. You will choose your topic through a process that balances your interests with the general feasibility of the topic (including resources available, rigor, and depth). You will learn how to find and evaluate both print and digital sources, examining the main arguments, purposes and biases within them. You will pull key ideas and details from the sources in notes that support your emerging research questions and claims. You will learn how to synthesize and represent your growing body of knowledge in an organized way, eventually sharing your new understanding around your topic by developing a thesis statement and writing a traditional research paper. Be prepared to read carefully, write, rewrite, and give and receive feedback on a daily basis. Also expect to invest a substantial amount of time outside of class reading, researching, and writing.

| Power Standard Course: Yes Expanding Knowledge Base | Credit(s): 2 |
| Distribution Requirement: Expanding Knowledge Base | Credit(s): |

**Required Experience(s):**

**Traditional Disciplines:** English

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Lifelong Fitness  
**Instructor(s):** Anna Magle-Haberek  
Cordell Church

What defines fitness? Cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition are all components of fitness, but being “fit” can come in all different shapes and sizes. In this class we will be applying components of fitness to exercise activities such as swimming, weight training, and yoga, so be prepared to get active in class! We will test our own bodies for various levels and aspects of fitness. These results will help us make predictions about our future health and how to improve or maintain our fitness.

| Power Standard Course: Yes Creating Healthy Life Choices | Credit(s): 2 |
| Distribution Requirement: Creating Healthy Life Choices | Credit(s): |

**Required Experience(s):**

**Traditional Disciplines:** Physical Education  
Math: Statistics  
Science: Biology

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Winter Ecology  
**Instructor(s):** Jon Anderson

In this class, we will study the ecological relationships that animals and plants both have to winter. We will telemark ski twice each week to investigate these relationships as well as the mountain ecosystem. In particular, we will study the plants and animals who live there and how they are adapted to life in winter conditions. If you sign up for this class, you’ll need to plan on being outside, in the cold, wind, and snow! We will be skiing on a variety of trails and terrain in Rocky Mountain National Park and will learn the skills needed to travel safely and efficiently in the backcountry.

| Power Standard Course: No | Credit(s): |
| Distribution Requirement: Creating Healthy Life Choices | Credit(s): |

**Required Experience(s):**

**Traditional Disciplines:** Science: Biology  
Physical Education
**Songs for a New World - Musical**

*Instructor(s):* Meghan Tokunaga-Scanlon  
Josue Quintana

Life can move you in so many directions and even when you think you have it figured out, that one moment can turn it all around. You can make a choice, or taking a stand, or turn around and go back, and through it all, there’s love, pain, and self discovery in the journey. In this course, you will develop basic singing and acting concepts through your character’s perspective. This is a rigorous course that will test beginning and advanced students in the development of their performance skills. Those accepted into the show through an audition and callback will be asked to commit to weekly rehearsals (class), final week dress rehearsals, attendance to various professional performances, costuming, make up, set construction, and a final cast dinner and reflection.

**Power Standard Course:** Yes  
**Effective Communication**

**Distribution Requirement:** Effective Communication  
**Credit(s):** 2

**Engaged Global Citizen**  
**Credit(s):** 1

**Required Experience(s):**

**Traditional Disciplines:** Performance  Music  English

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**Feeling Lucky**

*Instructor(s):* Becky Poore  
Helen Higgins

If the casino always wins, why do people gamble? Why are more and more states legalizing gambling? Is there a best way to play casino games? What is gambling addiction? Wrestle with these questions and many more as we examine the mathematics of gambling and consider the implications for ourselves, and our communities. This course, based in the casino world, will help you practice making calculated decisions. As we study the mathematics of games, we will learn about the world of gaming and its social impacts. In class, we will gamble, discuss real life decisions, and create casino-style games to host a casino night for the Eagle Rock community!

**Power Standard Course:** No

**Distribution Requirement:** Expanding Knowledge Base  
**Credit(s):** 1

**Required Experience(s):**

**Traditional Disciplines:** Math  Statistics

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**Environmental Racism**

*Instructor(s):* Kira Faller  
Maria Myers

In this class, you will examine how colonization has led to systemic racism that has a negative/dangerous effect on the environment. As a class, you will dive deeply into case studies of examples of environmental racism. Through a combination of reading, class discussions, field trips, and films, you will discover about the root causes of each case, the danger of each environmental situation, and how it can impact communities (especially communities of color). You will engage with current events and analyze the various viewpoints on each issue, leading you to generate potential solutions and action steps to combat environmental racism.

**Power Standard Course:** No

**Distribution Requirement:** Engaged Global Citizen  
**Credit(s):** 1

**Required Experience(s):**

**Traditional Disciplines:** History  US  Geography
Queer Literature

Instructor(s): Brett Youngerman
Maria Myers

In this class you will engage with a series of texts from and about the Lesbian Gay BI Trans Queer (LGBTQ) community. We will examine their historical context as well as their significance in our present day culture. By doing so we will practice techniques for identifying important aspects of a text and how to effectively use that information to engage in discussion. Aside from reading literature, we will be watching movies, conducting interviews, and engaging in current events. You will have the opportunity to demonstrate your learning through a variety of mediums, including writing, discussion, and other creative outlets. Come to this class ready to think deeply and push yourself and society forward!

Power Standard Course: No
Distribution Requirement: Engaged Global Citizen Credit(s): 1
Required Experience(s):

Traditional Disciplines: English History: US

Chemistry of Cooking

Instructor(s): Sara Benge
Alexus Bell

This is a chemistry class in which we will study the chemical changes that food undergoes when it is cooked and processed. We will learn how cooks use techniques such as browning, kneading, emulsifying, and fermenting to create different tastes and textures in foods. Throughout the class we will put our knowledge to the test by creating dishes using these techniques and analyzing the results using the chemistry we've learned. We will record what we learn by writing lab reports. We will work towards the goal of hosting a meal for people in the community in which we teach them about the chemistry behind what they are eating!

Power Standard Course: No
Distribution Requirement: Expanding Knowledge Base Credit(s): 2
Required Experience(s):

Traditional Disciplines: Science: Chemistry

Ethnography

Instructor(s): Josán Perales
Eríq Acosta

In this class you will learn to see and hear various points of view pertaining to a group or an individual. This allows you to communicate not just with one's mouth but holistically to enable a more effective two way conversation. "Ethnography is the recording and analysis of a culture or society, usually based on participant-observation and resulting in a written account of a people, place or institution". Traditionally, ethnographies have focused in depth on a set group of people. Today, they are just as likely to focus on a particular aspect of contemporary social life, such as the work place, a sporting event or even school. Using ethnography as a tool to explore culture and society in our world, you will present your observations and experience with a wide audience through biweekly podcasts. Learn about the customs, cultures, and identities of people in communities near and far, while polishing your skills as a narrator for those people's stories.

Power Standard Course: Yes Engaged Global Citizen
Distribution Requirement: Engaged Global Citizen Credit(s): 2
Required Experience(s):

Traditional Disciplines: History: World History: US
Geometric Quilting

Instructor(s): Cindy Elkins
            Helen Higgins

This class is about problem solving, both through sewing quilts and exploring geometry. We will investigate the relationships between the math, art, history, and culture of quilts. Together we will make a group sampler quilt; then each student will design and create their own quilt. We will explore the connections between patterns, colors, shapes, and textures, while discovering the geometry embedded within quilts. You will practice budgeting and understand how intentional mathematical decisions support creativity. Learn to hand and machine sew as you create your original one of a kind quilt!

Power Standard Course: No
Distribution Requirement: Effective Communication Credit(s): 1
Required Experience(s):

Traditional Disciplines: Math: Geometry  Visual Art

What's Your Legacy?

Instructor(s): John Guffey

What legacy do you want to have at Eagle Rock? What do you want to leave here as a way to say thank you and positively impact future Eagle Rockers? In this class you will develop and complete your Legacy Project and Reflection. The Legacy Project is designed to have a long lasting, beneficial effect on the Eagle Rock community. In the past, such projects have included swings and benches, a chair for the library, a book return island, a school store, a wooden map of the United States indicating the hometown of each ERS graduate, murals, a sculpture garden, planning and implementing a composting program for the Eagle Rock community among many others. To take this class you must have a basic concept for your Legacy Project approved and ready to go by the beginning of ER-71. Projects that are constructed of wood are recommended but good ideas using all types of materials will be welcome in this class. Use your creativity and think about an impact you want to have on our community before you leave...join this class to share your creativity and gratitude with our community!

Power Standard Course: No
Distribution Requirement: Leadership For Justice Credit(s): 1
Required Experience(s): Service Project and Reflection
                        Philosophy of Service
Traditional Disciplines: Math: Geometry  English  Visual Art

Juguemos Juntos - We Play Together

Instructor(s): Josán Peralta
              Kira Faller

In this class, you will learn Spanish by working together to solve initiatives and challenges. As you learn the vocabulary necessary to have basic conversations, work together, and give directions in Spanish, you will also learn the vocabulary necessary for leadership and group collaboration. By the end of the class, you and your class will design and facilitate initiatives in Spanish for one another and students in Estes Park.

Power Standard Course: No
Distribution Requirement: Effective Communication Credit(s): 1
Required Experience(s):

Traditional Disciplines: World Lang: Spanish
Political Cartooning

Instructor(s): Cindy Elkins
Enq Acosta

The simple images of cartoons can be deceptive. The best cartoons express real conceptual complexity with few words. In this class we will read and analyze Art Spiegelman's "Maus". Discover how to plan and develop original cartoons that express your thoughts about local and international issues. Learn how to research and gather evidence to use in a creative story board, graphic novel, or "funny pages" format. Drawing techniques with pencil, marker, or pen and ink, will deliver your thoughts in a professional manner. Silk screen your main characters and get your message out to the masses. Come to this class ready to learn, create, and have an impact on others!

Power Standard Course: No
Distribution Requirement: Engaged Global Citizen Credit(s): 1
Required Experience(s):

Traditional Disciplines: History: World Visual Art

Who Am I? DNA

Instructor(s): Sara Benge
Alexus Bell

Have you ever wondered why you look and act the way that you do? It's because of your Deoxyribonucleic Acid! Can you say that three times fast? In this class, we will learn about the structure and function of our DNA. We will collaborate with the local hospital to do our own lab work, learn our blood types, and identify the personal characteristics that are determined by our genetics. In addition, we will learn how our genes turn into the features we see! Have you ever wondered why you have brown eyes but your mom's are green? By the end of this class you will become the scientist and understand just how you became YOU!

Power Standard Course: No
Distribution Requirement: Expanding Knowledge Base Credit(s): 1
Required Experience(s):

Traditional Disciplines: Science: Biology

The Art of Mathematics

Instructor(s): Becky Poore

"Mathematics is the sister, as well as the servant, of the arts and is touched with the same madness and genius" (Harold Morse, mathematician). Math is one of the greatest feats of human creativity and imagination. Many mathematicians and philosophers through the ages have talked of the deep connections between math, art, and the search for Truth. In this class, we will explore these connections, as we explore some of the most beautiful ideas in algebra and geometry. Focusing on the natural intersection of geometry and algebra, we will dive into the many ways that algebra and geometry each support a deeper understanding of the other. Throughout this exploration, we will strive to find creatively simple and beautiful explanations for initially challenging problems. Since it is an art of ideas, one of the most challenging aspects of the art of math is giving it a physical form. We will explore the many ways this has been done through such forms as writing, drawing, video, and origami. For their final project, students will create a physical representation of a mathematical idea they find beautiful, and share it with the community!

Power Standard Course: No
Distribution Requirement: Expanding Knowledge Base Credit(s): 1
Required Experience(s):

Traditional Disciplines: Math: Algebra Math: Geometry
### Connections in Wood
**Instructor(s):** John Guffey

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.

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<td><strong>Required Experience(s):</strong></td>
<td>Legacy Project and Reflection</td>
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<td>Service Project and Reflection</td>
<td>Philosophy of Service</td>
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<td><strong>Traditional Disciplines:</strong></td>
<td>Math: Geometry, English, Visual Art</td>
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### Architecture
**Instructor(s):** Helen Higgins, Kira Faller

Architecture: the cross-section of math, design, and engineering. The spaces in which we spend our days define a lot of aspects of our lives. They are built around their function, designed and constructed to fulfill a purpose. Put yourself in the driver’s seat of designing the buildings, rooms, and places where we spend our days. In Architecture, we will become critics of design, questioning how spaces function in our lives. Students will use creativity and geometry to propose new design ideas, and as a class we will contribute to the architecture of Eagle Rock. By working with Eagle Rock architect Jeff Winston, we will use our actual school budget to make additions and changes to Eagle Rock’s infrastructure.

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### Math 4 Life
**Instructor(s):** Becky Poore

After graduating from Eagle Rock, where will you be living? What will you be doing? And, more importantly, how will you pay for everything? In this class you will imagine what your life might be like in the near (and far) future, and learn how to successfully and responsibly plan for that life. Topics covered will include how to: save money, manage bank accounts, create a budget, find an apartment, search for a job, pay for school, buy a car, and file a tax return. Come prepared to put in a high level of time and effort that will help set you up for success in your life after Eagle Rock.

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<th>Distribution Requirement: Creating Healthy Life Choices Credit(s): 1</th>
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