

Course Catalog — *Arts*

A846: Advocacy Through Art

Keara McLean, Elizabeth Trefney

This class will explore the concepts of art and advocacy, particularly in relation to HIV/AIDS in the United States. Students will learn about these concepts by exploring artist activists such as Keith Haring, the AIDS Memorial Quilt, and through the design and creation of their own activist stickers.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

A932: And Then I Woke Up: Representations of Dreams in Popular Media

David Siebold

The “dream sequence” has become a storytelling staple in television and film, but how do we visualize something so abstract? Looking at a handful of depictions of dreaming, including those from “The Sopranos,” “Inception,” and even “Spongebob Squarepants,” we will analyze multiple perspectives on dream logic, explore the function of the dream sequence within a plot, and consider why storytellers continue to return to this narrative device.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

A792: Flash Fiction

Maya Chari, Emma Deschene

Flash Fiction is best described as the art of creating a whole new literary world within the confines of a page or two. Do you have what it takes to throw out the rules and cast doubt to the wind and expand your creative writing tool box? If so, this is the class for you. We will be focusing on writing one short but powerful piece that will be edited by your peers and possibly shared with the class??

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

A880: Found Poetry

Chadwick Dunefsky

Use material from everyday life to create a poem. Anything can be used as inspiration. For example, consider a magazine on geology and replacing all the uses of “rock” with “human beings.”

A quick example follows:

“It has long been known that rocks subjected to stress undergo preferred dissolution at highly stressed interfaces”

Conversion:

“It has long been known that human beings subjected to stress undergo preferred dissolution at highly stressed interfaces”

Or consider using Chipotle cups (the ones with the stories on them) and replacing the names of individuals on them with something humorous. Anything from life can be used to make a poem. This course will teach you where and how to find inspiration. We will be making two poems in this course: one as a class and one individually.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

A777: Intro to Modern Calligraphy

Natalie Daumen

Learn how to create beautiful calligraphy and hand-lettering to use on canvases, bullet journals, or other artwork!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

A887: Intro to Ukulele Ensemble-ing!

Erin Scannell

Students will learn how to play and sing a song or two as a group with harmonies and fun arrangements depending on the skill levels of the group!

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

A905: Narrative in Video Games

Michaela Deguzman

It’s just a video game... right? This course explores video games as a powerful narrative medium through analyzing game mechanics, graphics, music, and story. By the end of this course, students will be able to step back and analyze the video games they play!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Class is FULL!

A818: Photography 101

Matthew Gibson

A photography class that explores the basics of photography: what are the mechanics behind a picture? what can you do to make your picture more aesthetically pleasing? How do you properly shoot on a DSLR camera?

After we learn all of this, lets put it to use! Let’s explore UNC and photograph it!!

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

Class is FULL!

A779: Poetry Writing*Jack Davis*

We'll read and discuss a range of poems, and even get a chance to workshop your own work. You can get a feel for what a college-level creative writing class feels like, and gain insight into the creative writing department at UNC.

*Open to students grades 9 through 12***Sat 10:30am–12:15pm****A916: Rap, Hip-Hop, and The Redefinition of Masculinity***Ishan Thaker*

The course will focus on the ever evolving narrative surrounding masculinity in the scope of Rap and Hip-Hop. Since its origin, Hip-Hop has played an influential role in the progression of ideas in society, and has continued to change the perception of so many important ideals such as homophobia in black communities, masculinity, and restructuring of the norm. Through this course, students will gain a better understanding of ingrained prejudices and the response Hip-Hop has brought. This course will examine the path paved by classic icons like A Tribe Called Quest and Kanye West for modern artists such as Tyler the Creator, Frank Ocean, and Brockhampton, just to name a few. Students will gain a better knowledge of Hip-Hop overall, and will be able to understand all the nuances of modern performance in regards to politics, social constructs, and innovation through some of this generation's most iconic and talented artists.

*Open to students grades 9 through 12***Sat 10:30am–11:15am****Sat 11:30am–12:15pm****A865: Special Topics in Animation: Explosions!***Dylan Caskie, Grace Han*

This class will explore how explosions in animation function and have developed over time in different styles. This course will analyze the aesthetics and cultural history of the explosion in US and Japan.

*Open to students grades 9 through 12***Sat 10:30am–12:15pm****A942: Star Wars: Heroes and Villains***Griffin McGuire*

Character analysis in a galaxy far, far away! From Yoda to Darth Vader, some of the most recognizable hero and villain characters of all time are found in America's most beloved space-opera franchise. In this class, we'll discuss a few of the most important Star Wars figures. We'll analyze the history and motivations of these characters as well as the overall role they play in the context of the saga.

*Open to students grades 9 through 12***Sat 10:30am–11:15am****Sat 11:30am–12:15pm****Sat 12:30pm–1:15pm****Sat 2:15pm–3:00pm****A848: Swing Dancing for Beginners***BRANDON CHESNEY, Wesley Thompson*

Swing dance is a fun and addicting form of dance that was popularized during Prohibition era in the Jazz clubs of New York. With basic steps and moves, anyone can learn how to dance!

*Open to students grades 9 through 12***Sat 10:30am–11:15am****Sat 11:30am–12:15pm****Sat 12:30pm–1:15pm****A921: The Art of Identity***Caroline Willard, Hope Woodworth*

Each of us has many parts to our identity including race, gender, ethnicity, sexuality, ability, etc. In this class we will discuss the influence of identity on art and how we can express our identities through art. Led by artist Caroline Willard and non-artist Hope Woodworth, this class is open to all skill and comfort levels. Sharing your art is not required. If there are any specific supplies you wish to use please bring them with you.

*Open to students grades 9 through 12***Sat 10:30am–11:15am****Sat 11:30am–12:15pm****Sat 12:30pm–1:15pm****Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****A949: The Revolution Will Not Be Televised: Songs of the American Freedom Movements***Philip Riddick*

Music: the fuel of revolution. How has music influenced perceptions of the 21st century's major social movements? How do musical artists shape and reflect the political landscape in which they create? What does American music tell us about American culture? In this class, we will listen to, dissect, and learn the songs that pushed America towards progress and break down the movements that inspired them. This course will include a complimentary Spotify playlist of tunes used in the course.

*Open to students grades 9 through 12***Sat 10:30am–12:15pm****Sat 2:15pm–4:00pm****A781: Chopped***Shivani Desai*

Are you a huge foodie? Did you spend winter break binge watching Food Network? This is the perfect class to show off your culinary knowledge and learn more about the mystery basket ingredients! What produce items are the most difficult for the US to grow? What countries are these fine delicacies native to? What are their nutritional values and how do chefs incorporate them into five-star meals?

*Open to students grades 9 through 12***Sat 11:30am–12:15pm****Class is FULL!****A945: Graphic Design Is My Passion: An Intro to Adobe Illustrator**

Katie Otto

Have you ever wanted to learn how to use Adobe Illustrator to create posters, logos, art, or more? Come learn some basic design principles and the power of Adobe Illustrator!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

A933: How to Speak Publicly Without Freaking Out

Kayla Williamson

Public Speaking is a great way to creatively express ideas. However, most people fear public speaking. In this class, I will break down the basics of what makes an effective speech, from content to delivery. My hope is that breaking it down will allow people to see speaking as a fun tool and take some of the fear out of it. There will be multiple formats in the class in order to actively play around with ideas. There will be a time to put the skills into practice but I will not require that students speak publicly in the class.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

A900: Introduction to Digital Manga Art

Esther Lee

Do you want to learn how to draw manga style utilizing various digital programs such as Photoshop and Painttool SAI? This course will provide you with information on suggested digital mediums, various softwares, and design process. There will be demonstration and explanation on how to go from an idea in your head to the final product.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

A821: POC Representation in Media

Aaron Murphy, Noni Shemanski, Zavier Taylor

A crash course on the depictions of Black, Latinx, Asian, and Native Americans in historical and contemporary film and TV. We will cover stereotypes and how to research and portray the lived experiences of people of color as accurately as possible.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

A771: Vaporwave: Music in the Digital Era

Matthew Chaloupecky, Forrest Wilke

This class will introduce the 2010s internet genre known as Vaporwave. Students will learn about both the ongoing history of the genre as well as its countless sub-genres and styles that have emerged since its inception.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

A870: Life Drawing 101: The Human Body

Michaela Deguzman, Grace Han

This class will teach the basic principles of croquis, of speed life drawing. Students will learn how to break down form, portray personality, and the foundations of caricature. Most importantly, this course will give students a chance to work

with live models.

Open to students grades 9 through 12

Sat 2:15pm–4:00pm

Class is FULL!

A975: Music 2112: Survey of Rush and Progressive Rock

Ashley Cantu, Ilon Weinstein

This class will focus on the history of the Progressive Rock movement, with a focus on arguably the greatest power trio of all time- RUSH! In this class, we will listen to a wide range of progressive rock songs and discuss how it fits into the world of Rock and Roll and has influenced modern music. We will discuss bands like King Crimson, Yes, ELP, and many more. This class is great for people who are familiar with Prog Rock as well as those who are just now hearing about it!

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

A800: Richard Wagner: The Man, his Music, and his Problems

Thomas Marshall

A discussion of the music and politics of German composer Richard Wagner (1813-1883). We will discuss what made him such an important figure in the development of music and how some of his works create moral problems in the modern world for orchestras who wish to perform them. Highlighted works will include “Tristan und Isolde”, “Die Meistersinger”, “Seigfried Idyll”, and more!

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

A909: Soap-Making

Danielle Cook, Elizabeth Monaghan, Ashley Mullikin

Learn how to make customized hand and body soaps in a variety of shapes, colors, and scents. This is an easy craft for the house or gifts. Before designing and making their own soaps, students can learn about the history of soap and the environmental benefits of using bar soap versus liquid soap.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Class is FULL!

A810: These expensive, these is red bottoms, these is bloody shoes: An Exploration of Personal Fashion as Visual Art

Connor Kirkpatrick

Fashion is a form of ugliness so intolerable that we have to alter it every six months.

-Oscar Wilde, Personal Impressions of America (1883).

These expensive, these is red bottoms, these is bloody shoes. Hit the store, I cant get em both, I dont wanna choose.

-Cardi B, Bodak Yellow (2017).

A highly interactive class delivered through a mix of fashion history, psychology of dress, identifying trends in pop

culture, and visual analysis of fashion, students will learn how to think critically about the choices they make in regards to what they wear every day and the significance of fashion and dress in our world. Then, in the second half of the class, students will be given a challenge to apply the content learned about fashion as a visual art in the first half of the class.

Open to students grades 9 through 12

Sat 2:15pm–4:00pm

A845: Water marbling

Nuran Golbasi, Turkan Banu Karatas

This is course about a Turkish cultural art called Ebru, or Water Marbling. First, we will cover the historical and cultural significance of this tranquil art. Afterwards, we will have a quick workshop where all the students will be able to try out various techniques. Each student will be able to bring home one piece of artwork that they create during the class.

Open to students grades 9 through 12

Sat 2:15pm–4:00pm

A858: Paper Marbling

Danielle Cook, Elizabeth Monaghan, Ashley Mullikin

Learn how to marble paper using shaving cream and food coloring! Be prepared to make a beautiful mess.

First, we will go over what exactly is paper marbling and some practical uses in history.

Then, we will have a short demonstration of how to marble paper.

Next, everyone will have plenty of time to design and experiment on their own (or in teams!).

Finally, we clean up and display everyone's masterpieces! Everyone will take something home after this workshop.

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

Class is FULL!

Course Catalog — *Engineering*

E837: How to Grow an Organ

Elizabeth Schwabe

The purpose of this course is to give students a brief introduction of biomedical engineering and its applications. It will provide a summary of how grafts are used to grow individualized organs and where research is headed.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

E937: Engineering 101: Design a Prosthetic Limb

Andrea Brandt, Bretta Fylstra

How do engineers design the next greatest invention? How do we make bionic humans a reality? In this course, you'll learn about the engineering design process and how we develop the next generation of prosthetic limbs, in order to help people with limb loss get their life back. You will then get the chance to brainstorm, design, and build prototypes to test your knowledge and experience what its like to be an engineer for a day.

Open to students grades 9 through 12

Sat 11:30am–1:15pm

E895: Wanna break stuff? Let's Study Fracture Me-

chanics

Travis Broadhurst

We all LOVE breaking things. Let's face it, it's part of our human nature to play JENGA, knock over snowmen, and the like. But, have you ever wondered how cracks form? Why do things break in the first place? We will take a close look at fracture mechanics and how they form, spread, and are prevented with a focus on the fracture mechanics of subsurface geologic systems. We will cover some about earthquakes, mud cracking, and more!

Open to students grades 10 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

E913: SpaceX, NASA, Blue Origins: The Future Landscape of Space Exploration

John Martin

Ever wonder what the future of manned space exploration looks like? Will Elon Musk be the first to land on Mars? Why is the founder of Amazon interested in rocketry? In this course we will discuss the current prospects of propelling humans back into outer space in addition to discussing the main differences between three of the major rocket industries.

Open to students grades 9 through 12

Sat 4:15pm–5:00pm

Course Catalog — *Humanities*

H851: Arabic Language and Culture

Jenna Heavner

This course will provide a brief history of Arabic Language and an introduction to Middle Eastern and North African culture. Students will be able to say basic greetings, introduce themselves, and use cultural phrases.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

H872: Cinematic Feasts: The Representation of Food in Film

Tatiana Farmer, Jennifer Na

From jiggling jello in Jurassic Park to Bruce vs. Chocolate Cake in Matilda, food is often a memorable addition to movie scenes: but is food auxiliary extras or central to thematic development? Cinematic feasts are tantalizing to our visual senses and evocative of our own nostalgic food memories. Examples from the evolving genre of food films will be analyzed as we discuss cinematographic technique and its impact on food representation and the viewers emotion, memory, and understanding of plot themes. So, lets silence our phones, sit back, relax, snack, and enjoy some food films!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

H772: Conflict Resolution: A Case Study in Israel/Palestine

Emily Adcock, Mary McKenzie

In this course, students will be introduced to interpersonal conflict resolution skills and dialogue strategies through a case study of the conflict in Israel/Palestine.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H938: From “Excalibur” to “Game of Thrones”: Examining the Medieval World through Film

Edgar Kinnier

Knights in full steel armor, giant stone castles that loomed over the landscape, and chivalrous wars fought between powerful kings - these are often the images that come to mind when thinking of the middle ages. The truth, however, is a bit more complicated. In this course examining historical memory and narrative, students will watch sections of classic medieval films as well as more current adaptations. We will discuss how we remember the Medieval World, how its presented in fantasy and historical fiction, and what if any affect it has on today's world.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H817: From Moses to Kendrick: Modern Prophets in Rap

Carley Cook

This course will allow students to connect their knowledge of religious prophets to modern-day rap. After a brief discussion of what a prophet means for most religions (including Christianity, Judaism, and Islam tentatively), students will look at lyrics from rappers Chance, Kendrick, and Kanye (songs mostly TBD). Listening to the songs and reading along with the lyrics, students will analyze the lyrics and discuss ways in which Chance, Kendrick, and Kanye are and (are not) prophets. Discussion will then move into the ways students believe a rapper is stronger as a prophet than the other rappers and what makes a prophet effective today.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

H841: How to give a TED talk

Dhvani Bhatia

This course is to teach students effective public speaking and communication skills as well as the chance to practice speaking in a TED-talk style format.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

H944: Intersectional Feminism 101

Katie Otto

How does your identity impact your daily life, and how does identity shape the modern feminist movement? How do we use intersectionality to create a more inclusive fight for equal rights, and how can intersectional feminism relate to #BLM, the Dreamers, LGBT+ issues, and more? The course will address these questions and more, come prepared to dive deep into intersectionality!

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H974: Intro to Africa

Afi Bello

This course is meant to call to attention how stereotypes and misconceptions having to do with the continent of Africa and her people perpetuate a “single-story” narrative. Students will also learn various facts about the continent and its many countries, peoples, cultures, and languages.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

H951: Introduction to Game Theory: How People Make Choices And Why They Suck At It

Ben Dolder

Game Theory is the science of using math to predict what people do. This class is going to cover that math in a very simple way (if you can do algebra you can handle it), and talk about studies into human rationality. Why do people do certain things, and why do they make so many mistakes? Expect a mixture of lecture, games, and discussion about how to interpret scientific studies. We will cover examples of game theory from Cortes to modern day to get the students to grapple with rationality, how they can use it, and why people rarely use it themselves.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H840: Introduction to Turkish Language and Culture

Gizem Cetin, Turkan Banu Karatas

A brief introduction to Turkish language and culture. Students will learn the basics about the language and how to introduce themselves, and appreciate the diverse roots of Turkish culture.

Open to students grades 9 through 12

Sat 10:30am–11:15am

H813: LGBTQ+ Representation in Media

Alyssa Atwell, Rachel Maguire

After brushing up on our modern gay history, we will dive into discussion on how queer characters are portrayed in pop culture, with a focus on movies and television shows (including but not limited to: Buffy the Vampire Slayer, The 100, Black Mirror, and more). This course is a combination of teaching (the history), viewing TV/movie clips, and most importantly discussion!

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H965: Marxism and Politics: Economy, Race, Gender, and Oppression

Christi Fenison, Shaun Terry

Who is Karl Marx? What is Marxism? What is Communism?

How are these relevant today, and what relationships do they have to contemporary feminism, anti-racism, anti-colonialism, and other leftist social movements, if any?

There are lots of ideas about the role of Marxist ideas within contemporary society. While some people may see Marxism as stale and irrelevant, other people may think that positive change can only come if the working class proletariat (whoever they are these days) seize the means of production

(whatever those are these days). Some may think of Marxism as opposed to feminism, anti-racism, and other subversive -isms, while others may think that these subversive -isms, including Marxism, are all ideas that aim to fight oppression. And still, there are lots of other ideas about Marxism, politics, and contemporary society.

We will take a brief historical look at Karl Marx, the history of movements that have invoked his revolutionary ideas, and how these ideas are discussed in contemporary discourses.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

H922: Media Literacy: How Media Construct Realities of Race, Class and Gender

Meredith Collins

In this course, we'll learn how to decode the media constructions of race, class, and gender. Based on a real course offered at the UNC MJ-school, we'll discuss the ways in which media code race, class, and gender, as well as how to recognize and react to those ideals. We'll even get hands-on in reacting to the media through a short class project.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H939: Mockingbirds and Murder: An Introduction to Southern Literature

Blythe Gulley

Go beyond biscuits and sweet tea and explore the ~edgier~ side of our region and its writers. This class is designed to present a brief history of Southern literature. Students will receive an overview of notable works and authors that depict the South from various times in history, with a focus on contemporary authors and publications. We'll also do a short writing exercise in class.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

H778: Novel Writing

Abba Furry

Are you thinking about writing a novel, writing one, or just curious about what a novelist's process might look like? This is the class for you! We'll take a look at the three Ps of noveling, Perseverance, People, and Plot, and I'll answer any questions you have based on my experiences from noveling for over a decade.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

H966: The Theatre of Ancient Greece

Madison Boos

In this class we will be exploring the world of Ancient Greek theatre- what is it, why it was performed, and how it was regarded. We will look at brief excerpts of some of the surviving

plays and attempt to draw out meaning. The class serves to ask two questions: What do these plays have to tell us about the ancient culture they came from? And, more importantly, what do they mean for us today? We will end by examining examples of popular modern theatre in an attempt to bridge the gap between the modern and ancient world.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

H826: The United States and Russia: The International Situation

Denton Ong

This course will conduct a survey of Russia's relationship with the West, and in doing so, will touch on a wide variety of issues, ranging from cyber and information operations, to destabilizing economic activity and hybrid warfare. This will be a background to much of what students will know from the news, thereby providing context and clarification on a critical topic in international relations.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

H825: The legos of language: build your own today! (Workshop)

Mykel Brinkerhoff, Brent Eisenbarth

Famous conlang-ers, like Tolkien created the Lord of the Rings series to give a universe to his fictional languages. Here we will teach a workshop oriented class, where you will be introduced to basic concepts of linguistics through the creation of your own language for fun or for personal projects.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

H847: American Medicine in The Midst of MANY Cultures

Taya Joseph

Over time, America has grown to be a diverse melting pot, but what does this mean in the context of American medicine? In this class, students will explore the dynamics beyond science that shape American medicine and the doctors within it. Students will learn about several cultures in America, their experiences in American medicine, and how the subsequent generations in the health professions can learn from these stories.

Open to students grades 10 through 12

Sat 11:30am–12:15pm

Sat 3:15pm–4:00pm

H878: History and Practice of Gerrymandering in the United States

Krupa Kaneria

This class will analyze the history and practice of gerrymandering in the U.S. Students will be introduced to a brief history lesson, then we will talk about famous court cases involving gerrymandering, its affects on the voting and elec-

tion process. Students will have a chance to draw their own gerrymandered state to simulate the practice.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

H799: Introduction to Sports Journalism

Madeline Coleman

We will discuss the steps of how to write an article, the interview process, and types of things to look for when covering a game. This will specifically focus on UNC, but all material is applicable to any level of sport. If you're interested in writing or sports, definitely take this course in order to see how to keep up with your passion once you graduate high school and college.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

H976: Loving Your Body: Self-Image and a Look at Contemporary Body Politics in the US

Ruth Allen

In this interactive class, together we will analyze the cultural and societal elements that influence how we think about our bodies, learn mechanisms to re-frame negative thoughts and perceptions of ourselves, and share our own experiences. There will also be a bit of crafting! All are welcome.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

H834: Secret Santa and the Bipartisan Solution

Miranda Cecil

It's not often that one hears "Secret Santa" and "Bipartisan Solution" in the same sentence, and yet here we are. According to Prisoner's Dilemma theory, there is real correlation between events like Secret Santa and cooperation. In this course, we will delve into the implications of this and brainstorm other potential solutions.

Open to students grades 9 through 12

Sat 11:30am–1:15pm

H786: The Central Powers Interwar Experience: Why Should I Care?

Sylvia Roper

This year is the centenary of the end of the Great War (World War I). The interwar period affected countries differently; some prospered while others suffered political upheaval, economic strife, and social tension. In this course, we will look at the latter in the former Central Powers, namely Germany and Austria-Hungary. This course offers an opportunity to learn about a different side of the European interwar experience. Further, we will consider the wider (international) consequences of these interwar environments, such as the motivations to go back to war in 1939. By looking at some interwar (and present) cases of the Central Powers, you will gain insight into a part of the world that may be unfamiliar to you. Anyone interested in history, politics, and Europe

should sign up for this course.

Open to students grades 9 through 12

Sat 11:30am–1:15pm

Sat 2:15pm–4:00pm

H979: Wakanda Question Is That: The Black Experience

Sydney Cheek

Navigating the world as a person of color can be hard; how does one maintain the balance between educating and popping off when people come at us sideways? Lets talk about the types of off-the-wall questions people throw our way and how to deal with it professionally. Wakanda serves as a model nation for us to try and mold our philosophies after.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

H959: American Courts Explained: How and Why the Legal System Works

Nathaniel Drum

Whether getting a parking ticket, getting married, or serving on a jury, we are all immediately and directly tied to the American Court System. From the moment we are born or naturalized into American society, we are subject to its rulings and regulations. By taking an in-depth look into how and why the American legal system operates, we can gain better insights into the functioning (or lack thereof) of our society.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

H824: Babbling: the Incredible Story of how Children learn to communicate

Brent Eisenbarth

This course seeks to introduce students to Language Acquisition. Although children have many skills to learn, by the age of 5 they have nearly mastered language. Without laborous declension charts and vocabularly lists that mark foreign language classes, children who can barely walk rapidly decode speech without instruction and develop a command over complex gramatical and pragmatic (social uses) of language. This class will explore the stages of language development in children, and raise questions about language acquisition, childhood bilingualism and language's role the development of an individual.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

H957: Crash Course on Beginner Japanese

Tatiana Farmer

Interested in learning Japanese, but don't know where to start? Take this brief introduction to the language and learn a phrase or two in the process!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

H881: Economics of The Great Recession and Income Inequality

Remi Bellefleur

Here I will discuss the Great Recession of 2008-09, covering important stats, discussing stakeholders (who is to blame?), and looking at key indicators since it ended that tell a story about income inequality in the U.S. Course is based on Econ theory.

Open to students grades 10 through 12

Sat 12:30pm–1:15pm

H811: Lego: Art, Inspiration, or Toy

Joshua Pontillo

In this Splash course, we will explore the nature of Lego whether it should be considered an art form, a source of creative inspiration, a construction toy, or something in-between. We will also delve into how Lego is depicted through movies and artwork as well as some fundamentals of Lego. Certain Lego themes such as Bionicle and Star Wars will also be discussed. The aim is for students to leave with a better understanding of Lego holistically and with insight that Lego, like many other everyday toys and objects, often comes to represent much larger ideas within a culture.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

H774: Nationalism in the Great War

Zoey Howe

This course will examine different examples of nationalism during World War I, beginning with the assassination of Archduke Franz Ferdinand and continuing with various examples throughout the war. This course will also discuss where the differences between nationalism and patriotism fall.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

H883: Nonprofit Toolkit: Turn Problems into Solutions

Sarah Cline

How do you take a problem you see in your world and turn it into an organization that inspires change? Nonprofit organizations can be a way to solve some of the issues we face everyday, from food insecurity to supporting families through a cancer diagnosis. In this course you will learn how you can create a nonprofit to provide real change!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

H972: Racism: Systemic, Interpersonal, Institutional, and Structural.

Afi Bello

After taking this class, students will be able to understand the four different types of racism, and their implications in societies/groups of people past and present, Students will also be able to point out the different fallacies of racism as well as gain a deeper understanding of the system of racism and the construction of race as an ideology.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

H766: Theories Behind the Black Dahlia Case

Nathan Benn

Elizabeth Short's murdered body was found on January 15, 1947, in a vacant Los Angeles lot. However, her killer was never officially found, and even seventy years later, this is still one of America's biggest unsolved crimes. What happened to Elizabeth Short, and which men are the prime suspects for her murder?

Note: I will make sure not to use graphic language or display graphic photographs when teaching this course, yet this course truly is not for anyone who is uncomfortable discussing criminal murder cases.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

H926: Trust Issues 101: Tunnel-Vision of the Western Media

Rawan Ajeen, Ayan Ajeen

The medias role is to produce news and inform the public. However, what most people do not realize is how the media shapes the way we view the world and the people around us. This course aims to discuss the biased Western media and the implications it has on society, particularly in terms of further driving stereotypes and contributing to new, often problematic, policies.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

H866: Why we scare ourselves: the pleasures of horror

Dylan Caskie

Have you ever wondered what makes a horror film pleasurable to watch? Why is scaring yourself considered 'fun'? This class will look at a number of different ways to address this seeming contradiction and will be followed by a short discussion afterwards.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

H930: Alien Languages and the Philosophy of Language

Blake Shull

This is a discussion-oriented course about key philosophical questions regarding language.

Does Universal Grammar exist? What are the limits to

human language? What is the Sapir-Whorf hypothesis, and what are its implications on human thought and perception? How do the languages you speak influence how you perceive the world- or do they? Do they affect things like attention, memory, and our ability to form complex thoughts?

We seek to approach these core questions with the idea of an alien language- if there were a language fundamentally different from human language, how would different theorists respond to it? In short, what might an alien language look like?

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

H780: College App Essay Writing Crash Course

Davis Dawson, McKenna Urbanski

Applying to college would be easy if it weren't for those pesky essays. What's the goal of these essays? What do application reviewers actually look for?

Who do you ask for help when your English teacher last applied to college when applications were on paper???

Fear not, because this crash course has been designed by a current UNC first-year & sophomore who have been through this and were successful! We will cover everything from Admission Insider Tips to the "7 Deadly Topics" and writing process.

Don't wait until the fall semester of your senior year to start thinking about your essays! After all, the early bird gets the worm!

SYLLABUS AVAILABLE BELOW

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

H809: From Elvish to Esperanto: An Exploration of Constructed Languages

Nora Knapp

Why do people make up languages? Why do people take time to learn made-up languages? Is there such a thing as a "perfect" language? What are the stories behind the languages you hear in movies and shows like Game of Thrones, Lord of the Rings, Star Wars, and Star Trek?

We will explore a variety of attempts by humans to create new languages throughout history, discussing the hopes and goals of their creators, the factors influencing their sound systems and grammars, and the public's response to them.

Languages to be discussed will include Esperanto, Elvish (and other Tolkien languages), Klingon, Dothraki and Valyrian.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

H978: Inequity in Our Public Education System*Ruth Allen*

Interested in education? Come learn about education policy as we draw on our own experiences with the K-12 system to discuss types of schools, racial and economic achievement gaps, systems of education financing, and other elements to this exciting and important topic.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****H798: Introduction to Korean Language/Culture***Audrey Sung*

A brief introduction to Korean language and culture! The purpose of this class is to broaden one's perception of South Korea (beyond Kpop and dramas...) and to spur a curiosity and genuine interest to continue learning about Korean language/culture even after Splash.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****H948: Mindfulness 101***Tatiana Farmer*

Feeling stressed? Anxious? Life too hectic to have a moment of peace? Well come spend 45 minutes taking the time to become more mindful and maybe even learn to incorporate it into your daily life.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****H849: Numismatics: The Study of Coins and Currency***Wesley Thompson*

One of the longest lasting forms of human interaction is trade and with it came coins and currency as modes of exchange. From ancient Mesopotamia to the modern United States, coins and currency have existed as the most popular forms of exchange, national and personal expression, and portable forms of art. This class on numismatics will give an overview of the history of these objects, the events which shaped their use, look, and composition, and how they can be preserved.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****H857: Sexuality and Gender in Society***Annie Ford*

This class will serve as an introduction to issues of sexuality and gender. Topics will range from coming and being out, representation in the media, and the differences between sex, gender identity, gender expression, and sexual orientation. This class will be lead by queer individuals and a safe space for high school students to discuss these topics. The goal of this course is to raise awareness and provide high school

students an opportunity to talk about their own experiences up to this point in their lives.

*Open to students grades 9 through 12***Sat 2:15pm–4:00pm****H819: How Monkeys, Bears and Squirrels contributed to developing Hinduism in the Caribbean***Dhanesh Budhram*

This course is designed to explain how Hindu scriptures such as the Ramayana, Bhagavatam and Mahabharata served as models for practicing Hindus in the Caribbean as means of identifying themselves to the world. Students will understand how congregational worship is practiced in places such as Guyana, Trinidad and Tobago. Suriname, Jamaica and French Guiana.

*Open to students grades 9 through 12***Sat 3:15pm–5:00pm****H884: Introduction to Philosophy***Austin Ferguson*

We're going to go over some basic philosophic ideas in a way that requires no previous philosophy experience. We'll go over the basics of analyzing topics philosophically, and how to approach subjects more rigorously than casual conversation. We'll go into some common philosophic notions behind reality, thought, ethics, and whatever else may come up.

*Open to students grades 9 through 12***Sat 3:15pm–5:00pm****H960: Money, Military, and Powerful Words: Introduction to Postcolonial Studies and Decolonial Studies***Christi Fenison, Shaun Terry*

We will begin by investigating US involvement in conflicts and humanitarian issues. Then, we will turn our attention to the conditions that have helped to allow for oppressions to occur.

Throughout the world, the US government and US organizations intervene to offer assistance to troubled regions. There is a legacy of US reconstruction in post-WWII Europe and Japan, but aid seems to have mostly failed elsewhere. Why is that?

Around the world and throughout literature, there seems to be some consensus about some of the problems-namely, profiteering, globalization, and neoliberal policies have led to outcomes that leave US providers of aid with large sums of money and unfortunate areas of the world with persistent problems and unfulfilled promises.

Some of this can be traced back to the very foundations of coloniality and modernity. Have you ever wondered why the PC police are so often so adamant? We will look at why some people argue that the words that we use so profoundly affect the construction of culture and affect how people behave.

*Open to students grades 9 through 12***Sat 3:15pm–5:00pm**

H955: Terrorism: An Introduction to Security Studies*Nathaniel Drum*

One of the most profound memories from my First Grade class was the day our teacher turned on the television and I saw the images of two planes crashing into the World Trade Center. At the time, I did not understand the significance of what was before me, but nevertheless, the world was about to change. These events of September 11th are some of the most pivotal moments in American history for more reasons than one. In this class we are going to take a step back and using an academic framework, we are going to attempt to understand the history, various motivations, and ultimate goals of terrorist organizations. Then, using our established framework, we can better analyze the impact that terrorism has had on the American way of life, and potentially, how we might come to defend against such heinous violence in the future.

NOTE All images and videos will be kept age appropriate (PG-13). The goal of this class is not to shock students, but to provide students with a framework to understand how as academics, we can analyze the use of terrorism.

*Open to students grades 9 through 12***Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****H763: The Future of Religion in America is (The) Dead***Ashley Cantu, Ilon Weinstein*

Have you ever thought about just what “religion” means?

For many people in the United States, what we think of as standard traditions of religion are being replaced with our obsessions grounded in popular culture. In this course, we will offer an overview of how many aspects of American pop culture fit into the definition of religion, primarily focusing on musical groups. We also hope to facilitate discussion about religious tendencies in fandoms for literature, television, and sports teams.

*Open to students grades 9 through 12***Sat 3:15pm–5:00pm****H788: The Importance of Dark Humor***Helen Hill, Jonah Howell*

Punctuated by the worst jokes we can muster, this class will talk of the importance of dark humor for culture and for individuals and of humor’s limits (if it really has any). Readings will come from French Renaissance monk Francois Rabelais, from Guy Debord, and from Charlayne Woodard.

*Open to students grades 9 through 12***Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****H839: U.S. Foreign Policy and Contemporary Racism***Vanessa Fuentes, Cerina Ziemke*

Learn how U.S. involvement in Latin America and Asia has created migration links. Discuss racism today towards these groups and America’s denial of their role in it all.

*Open to students grades 10 through 12***Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm**

Course Catalog — *Math & Computer Science*

M915: Crash Course in Data Science

Elaine Kearney, Lily Zhang

Have you ever sat in math class and wondered, “When will I use this?” This course will reveal exciting applications of math and statistics in the data science field today. We’ll dive into the buzzwords (Machine Learning, data wrangling, IoT, Python, R ...) and discuss the skill set of a data scientist. You’ll leave this course with a new appreciation for math and tools to tackle your own interesting problems!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

M762: Excel in Microsoft Excel

Davis Dawson

When your boss or professor asks you to chart and format your data in Excel, will you be ready? Most high school graduates aren’t, and whether your next stop is a summer job, college, or even another year of high school, Excel will be a skill worth having.

Spreadsheets may not be sexy, but this class will spice things up while covering the basics of Microsoft Excel in a fast-paced tutorial where you will get hands-on experience using Excel.

SYLLABUS AVAILABLE BELOW

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

M929: From Rocket Science to the Zombie Apocalypse: Modeling Systems

Gabrielle Hobson, Boris Mesits

How do scientists, mathematicians, and engineers understand complex systems? This course aims to take you through amazing real-life applications of differential equations across several disciplines, from environmental science to astronomy. We’ll explore fascinating examples such as predator-prey systems, the flights of rockets and movements of celestial bodies, and life in the deep ocean. Student participation is encouraged, and no math or computer programming experience is required! We have opportunities for you to get your hands on the interactive computer models and get a feel for what modeling science is all about.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

M935: So you wanna be a hacker?

Kimia Pourali

Maybe you’ve laughed at those unrealistic (and awkward) “hack back” scenes in crime shows, or you’ve day-dreamt

of being Mr. Robot 2.0. Whichever way your interest was piqued in security, this course aims to provide you with a roadmap to the field of ~security~ in computer science and engineering.

We will first show where best to start your learning journey, and the broad spectrum of sub-topics that follows. Then we will learn the typical packages of tools, published standards, and concepts handy for both amateurs and pros. We’ll come full circle by examining a set of case studies (some might not be legal so pls pls don’t try to replicate the dark side crazy stuff), and you’ll get to use your problem solving skills to think of how to effectively apply your cool new toolkit in these real world scenarios.

(No programming experience or advanced mathematics necessary!)

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

M882: Fractals and chaos

Austin Ferguson

In this course, we’ll go over some of the basics of the mathematics of fractals and chaos. It’s some really cool stuff, and it doesn’t require any prerequisite mathematical knowledge. We’ll talk about what makes something a fractal, what all the cool patterns that show up are, how it connects to chaos, and a bit about how chaos fits in with our understanding of the world, order, and disorder.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

M861: Introduction to Web Development and Computer science

Victor Cui

These days, everyone and their mother wants a website. So why not learn how to build one yourself? The first half of this course will teach you how to build a website from the ground up, using HTML, CSS, & JavaScript. The second half of the course will focus on what studying computer science is like in college and the careers that computer science majors typically pursue. If time permits we will do some interactive coding activities. No prior experience is necessary!

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

M934: The Analog Response to the Digital Revolution

Steven Lubbers, Ian Nickel

The goal of this course is to teach students about the ethics

and arguments surrounding emerging technologies particularly in the fields of artificial intelligence and robotics.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

M914: Elegant Waves: The Math of Music

Gabrielle Hobson, Boris Mesits

Science and art are surprisingly intertwined, nowhere is this connection stronger than in the intersection between math and music. This class will challenge students to visualize sound waves using ideas borrowed from the same mathematics used in physics and audio engineering. The concepts presented in the class are subtle but easily-accessible from any level of high school math. We will use intuitive, visual demonstrations of the relevant calculations. The emphasis in this class is on perception, not equations; we will see and hear the results of what we learn. Musicians and mathematicians alike will enjoy this experience, along with anyone curious about how the world works.

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

M891: Intro to Machine Learning: The Brains behind AI

John Martin

Interested in artificial intelligence? What about the ability to search the entire database of the web within a few seconds? Maybe the ability to geographically pinpoint your exact position with a single still image? The field of machine learning is leading the development of each of these very algorithms and our course will seek to explore their greater intricacies.

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

M940: Number Theory

Stanley Sun

Ever wonder how $1+2+3+\dots=-1/12$? What does advanced mathematics actually look like?

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

Course Catalog — *Miscellaneous*

X977: Affording College: How You Can Access Higher Education When Your Parents Can't Afford It

Ruth Allen

In this class, you'll be introduced to programs and strategies to make college affordable without getting drowned in student loan debt. This class will particularly be tailored to students that will be eligible for financial aid and for students that are interested in going to college in North Carolina. We'll also discuss budgeting plans and financial literacy.

Open to students grades 9 through 12

Sat 10:30am–11:15am

X952: Become a PRO at Parliamentary Procedure

Korie Dean

Have you ever watched Congress debate a bill and wondered why everything seems to follow a specific process? Maybe you've heard the words "aye" or "nay" but don't fully understand when to use them. In this class, we'll discuss the basics of parliamentary procedure—a process used to effectively run meetings. We'll start simple by discussing the "main motion," then move on to more complex motions like "point of order" and "amendment." Finally, we'll use our knowledge to perform a mock meeting and decide which candy to eat! The majority will prevail, but everyone will have fun!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X903: Bob's Burgers: What it Takes to be Happy

Brandon Oby

A discussion on how the Belchers, America's crappy, happy family, are the perfect example of what it takes to enjoy life. We will watch clips from the TV show, "Bob's Burgers," and do analysis of the show in a seminar setting.

Open to students grades 10 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

X874: Curling: The Coolest Sport on Ice

Nathaniel Drum

Part yoga, part shuffleboard, part chess, and totally unique, Curling has become the fastest growing sport and a fan favorite at the Olympic Games. Despite this, few people actually understand the rules, much less the intricacies of the sport. Over the course of 45 minutes, we will explore a brief history of this unique sport, the basic rules of curling, and the strategies employed by top level teams. Whether wanting to try the sport yourself, or whether just wanting to understand all the curling memes and gifs, you will be able to walk away from this class knowing that curling truly is the coolest sport

on ice!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X862: Dorm Living 101

Amanda Chau, Sage Snider

What does living at UNC entail? What are the different types of dorms are offered at UNC? What things are allowed in dorms? What can I do in a dorm?

If you have every thought one of these questions or will think of them in the future the. This class is for you!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X958: Everything You Need to Know About College Applications

Marisa Deininger

One of the most stressful parts of life- made easy! In this 45-minute class we will be discussing application essays, extracurricular activities, recommendations, resumes, financial aid, scholarships, interviews, and most importantly, how to decide what college or university is the right one for you.

Some people think it's only numbers that count to an admissions office, but as a college freshman who applied to a highly ranked private school without submitting any test scores, I know very well that it is the person underneath that matters the most.

Come learn about how you can make your college application reflect who you are and show admissions what a great student they would be privileged to have!

This course is open to all ages, as we will be discussing ways to prepare for college applications in addition to learning to build your resum early in your high school career.

NOTE: *Syllabus can be viewed at the bottom of the page*

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

X793: Game Design: Building an Experience

Jameson Blount

Video games are quickly becoming a primary entertainment medium for students, especially VR games. As gaming increasingly occupies the public imagination, it is important to investigate what makes a good game from a great one. This class will be touching over a myriad of topics to address the

equally diverse topics present in gaming discourse. Topics ranging from marketing, psychology, aesthetics, and narrativization, to name a few. Ultimately this course will analyze how games teach their players and what makes that experience enjoyable, moving through examples and encouraging students to participate in the gaming discourse.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X907: Heel's Kitchen

Rawan Ajeen, Lia Bauert, Annie Chen

The class will be an exploration of practical nutrition. We will cover food security, agricultural initiatives, and special diets. Students will gain practical skills of daily nutrition through learning how to read food labels and making a healthy meal.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

X924: How To: Maximizing Efficiency with ADHD and/or OCD

Grey Silverman

Do you have a hard time being productive? Do you struggle with obsessions, organization, focusing, or efficiency in general? Do you have OCD and/or ADHD? Does it take you longer to get things done than everyone else? If you answered yes to any of the above, come learn about strategies that might help you increase your productivity and live a little bit of an easier life!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

X783: Intro to Criminal Court

Jackson Lanier

In this class, students will learn an introduction to the US Criminal Court. By the end of the class students will know how defendants are charged, who does what in the courtroom, and how verdicts are reached.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X812: Intro to Self-Defense

Patricio Cano

This is an introductory self-defense class in which you will learn basic techniques that will help you in everyday life. No previous experience is needed and everyone is welcome!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X843: Im not Creative and other Myths

Beatrice Hutton

In this class, we will consider “creativity”. What does it mean to be creative and what does a creative person do? But we aren’t just going to talk, we are going to engage in our very own design challenge. Push your problem-solving skills and learn valuable ways to solve better and think more creatively. Great for artists and engineers alike.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X808: Knitting and Crochet

Arren Jones

Hand made crafts have been used throughout modern human history, and exist today as both an art form, and as a set of useful skills. In this class, you will learn the basics of how to learn to knit, or crochet. There will be a brief overview of the history of these crafts, and students can learn that these skills can be put towards any number of projects.

Open to students grades 10 through 12

Sat 10:30am–12:15pm

Sat 3:15pm–5:00pm

X894: Krav Maga: Special Forces Combat System

Hosung Hwang, Thomas Rush

This course will go over the foundations of self-defense most famously used by the Israeli Special Forces.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X917: More than just a vacation: How traveling abroad can change your life at home

Emily Gabbard, Tianzhen Nie

This class is intended for students that are interested in traveling, studying, or living abroad in any capacity. Our goal is to set students intending to embark on this great adventure for success, and we plan to do so by sharing all of our tips and tricks of the trade. Lastly, traveling abroad has been life changing experiences for both of us, and to that end we would like to share a little bit about what we have learned from these experiences and how they have impacted us

Open to students grades 9 through 12

Sat 10:30am–12:15pm

X904: Succeeding as a First Generation College Student

Jesslyn Smith

This course is designed to help high school students who are planning to attend college who will be a first generation college student (the first in your immediate family to attend college). This course will go over the general application process, cover financial aid, and lastly give some advice from a student who has navigated college as a first generation student. Questions/ requests for discussion before hand are welcomed and encouraged!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X815: The Power of Networking

Hristo Shimerov

Making meaningful connections has never been easier... and more confusing. Here you'll learn the power of networks and why building strong relationships with people is beneficial. We'll analyze the leading theories, their applications, and the misconceptions of building lasting friendships.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

X919: The Yin to our Yang: How to Use Traditional Chinese Medicine in Daily Life

Olga Prokunina

This class will aim to demystify Traditional Chinese Medicine (TCM) by exploring the theory of health and illness behind it, talking about common TCM treatments, and understanding how to apply some of these lessons to maintain your health as a busy student.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

X802: Veganism 101: or, How to be Plant-Based in College

Shiva Bakhtiyari, Madison Haynes

Have you ever been curious about going vegan but don't know how? Well you're in luck, because two vegan pros have put together all the best vegan college hacks and are here to teach you that you can eat your cake and have it be vegan too! We'll show you how to navigate the dining halls, where to get the best groceries, how to stay vegan when pizza is everywhere, and how to do it all without compromising your health or your wallet. Students from all points on the dietary spectrum are welcome!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X797: Women's Self Defense

Melody Alexander

The goal of this class is provide women with a holistic understanding of self-defense, and to empower them to feel more confident about themselves, and more prepared to face unexpected situations they may find themselves in. I hope this class will deconstruct misconceptions that students may have about sexual assault, and encourage students to leave feeling safer and stronger. There will be a combination of indoor classroom learning as well as outdoor hands-on learning.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

X863: Youth Leadership in Action

Connor Kirkpatrick

In this highly interactive class, we will explore what it means to be a leader and a young person. Filled with high energy activities and meaningful personal reflection, we will navigate through all of the leadership definitions and seek to define leadership for ourselves. Students will also learn and play games and energizers to use to take home to the groups they are apart of to help in group cohesion.

Questions we will explore together:

- What is your personal leadership style?
- What are the challenges a young person faces as a leader?
- How can you change the world?
- When leading, what are some techniques for building a strong team?
- How can you be a more effective leader?
- What is your personal philosophy on leadership?

Come be inspired and share your experiences!

Open to students grades 9 through 12

Sat 10:30am–12:15pm

X854: History of Hip Hop Music in Politics

Briana Colbert

This course will analyze the emergence and impact of Hip Hop music in politics. Students will be opened to a discussion about the influence of political issues on hip hop music in the United States. Lyrics will be closely look at and dissected to get a better understanding of the overall message.

Open to students grades 11 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X886: Jogging Your Memory

Caroline Currie, Alex Mahoney

A brief introduction to everything memory from study tips to building a palace of memory with practical applications ranging from getting an A to impressing your friends. (No running involved)

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X784: The Misrepresentation of Women in the Media

Jinna Hatfield

This course will combine media literacy with feminist ideas, using these two perspectives to criticize and evaluate the media that surrounds us. The class will look at examples of women in the media, through film, television, and advertising. By analyzing these mediums, we will be able to talk about how both sexism and racism is promulgated through mass media.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

X971: Who is an American?

Jessie Huang

Who is an American? Would you have been considered an American 50 years ago? 100 years ago? We will be looking at how different groups of people have been labeled in this country, and how those labels signify the acceptance or rejection of those groups. Where did the terms African American, Asian American, Mexican American, and others come from? We will also be discussing the changes with those labels and thereby with social attitudes towards certain groups with time, and how race and ethnicity heavily influences who we, as an American society, think are or are not Americans. The definition of being an American might seem common sense, but history will tell us that it is not so! This class is for those who are interested in sociology (or want to know what that even is), in how the media today talks about immigrants, and in the history of racial constructions (fancy way of saying how different racial and ethnic groups are labeled).

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

X803: Ah, ha, ha, ha, stayin' alive

Saahil Madhiwala

Have you ever wondered what you would do if your car broke down in the middle of the desert, or if you crash landed in a jungle? Well this class will teach you the basic survival skills needed to last or even thrive in those situations.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

X927: Dungeons and Dragons: Roleplaying On and Off the Table

Sri anish Pinnamaraju

Dungeons and Dragons, or D&D, is a popular roleplaying game that evokes images of dark basements and a robed nerds. However, this 45 minute course will attempt to destigmatize D&D to show the practical purpose it serves in our lives. By the end of this session, you will learn to bring the storytelling skills you learn playing the game into your everyday lives.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

X954: Introduction to Mukbang(Korean Eating Broadcast)

Lynn Kim

Have you ever heard about Mukbang? This course will teach you about one of the popular Korean culture: Mukbang, the Eating Broadcast. Also, through this class, you will have an opportunity to actually plan and create a Mukbang.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

X902: The Scientific History of the Korean Alphabet

Mia Borchlewicz, Susan Chen

This course will run through the history, development, and implementation of Hangul, the Korean alphabet. Students will come to understand the philosophical and scientific development of the Korean writing system and learn how to read and write in Hangul.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 4:15pm–5:00pm

X941: Vegan Strong

Ashley Sapp, Anna Zimmerman

Think vegans are all skin and bones? Think again! During this session, we'll talk about the fundamentals of vegan nutrition for athletes of all sorts - runners, weightlifters, and more! Whether you're looking to simply get healthier or transition to veganism, this class is for you! Drink and snack samples provided.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

X925: WTF- What The Feminist?!

Tanisa Mahalingam, Pankti Patel

This course is aimed to illustrate the importance of feminism in everyday life. In this course, we intend on observing the world through a feminist perspective, educating students about the multidimensional theories of feminism, and illustrating the possibilities of facilitating social change in daily life. This class is aimed for students from all backgrounds.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

X923: All Hands on Deck

Reem Ahmed

Have a good poker face? Are you quick to call BS? Love to go fishing? Then this is the class for you! Sign up to play some classic card games as well as some new ones– with a twist!

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

X964: Bigfoot, Aliens & Science? Oh my!

Jenah McCall, Brendan Trinidad

This course will be examining the science behind bigfoot, aliens and the possibility of their existence. We will discuss sightings, theories and their presence in popular culture.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

X867: Campaigns and Crisis: Introduction to Public Relations*Kristen Marino*

Have you ever wondered how campaigns are formed, or how companies handle crises? Have you thought about how a company could have improved its communications? In this class, we will have a brief introduction to public relations and look at several examples of recent PR campaigns and crises, discussing what might make them “good” or “bad” programs.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****X833: Cows, Cheese, and Chocolate: An Introduction to Swiss Culture***Miranda Cecil*

We will start with discussion of Swiss history and culture. Then, we will discuss the differences between life in the United States and life in Switzerland. Finally, we will have a chocolate taste testing to try some flavors from Switzerland and compare them with American brands.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****X871: De-stress with BTS***Susan Chen, Annie Chen*

Into K-pop? Or specifically BTS? This is the class for you! Here we will be watching videos, playing games, and enjoying each other’s company as we destress with BTS!

*Open to students grades 9 through 12***Sat 2:15pm–4:00pm****Class is FULL!****X869: Does Pavlov Ring a Bell?***Emily Parker*

PSYCHOLOGY is the scientific study of behavior and mental processes.

PUN-ODOLOGY is process of creating puns. In this course, students will be introduced to basic concepts of Psychology, specifically Cognitive Neuroscience (parts of the brain), and commit them to memory by creating simple crafts with puns of the psychology concepts. Get PSYCHED to have some PUN!

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****X928: How to Read in College***Larisa Bennett, Sara Edwards, BRIAN FAGGIN BATISTA*

Reading in high school is intense, for sure. But reading in college might get you really shook. Your first week of class might assign you over 600 pages for the next week, and its almost impossible to do it and not isolate yourself from everything else. But worry not, were here to help you get prepared for that! How to Read in College is a short course about reading, planning and efficiently getting through your assignments as a future college student. Plus, its a skill you can still use in

high school!

*Open to students grades 9 through 12***Sat 2:15pm–4:00pm****X868: Intro to Fitness Nutrition***Alvaro Nava*

Are you interested in learning how to eat right for your fitness/sport goals? Or are you interested in starting to focus on your nutrition in general? If so, this class is for you! We will cover the basics of nutrition - starting from a biochemical basis and then applying basic exercise science and practical tips to help you with your goals. Anyone - from any-to-no background in fitness - is welcome to join us!

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****X807: Let’s talk about sex***Roshini Amarasinghe, Julia Corbett*

An attempt at comprehensive sex education in about 1.5 hours

*Open to students grades 9 through 12***Sat 2:15pm–4:00pm****X776: Mind Reading in Crisis: Social Psychology and Moral Dilemmas***Rachel Horowitz*

Have you ever wanted to know what others are thinking? Although modern technology cannot accomplish this (yet), we can use tools from social psychology to understand why people might make certain decisions. We can also use moral reasoning to determine how to make choices in tricky social situations.

In this interactive course, students will learn philosophical and psychological tools to analyze moral dilemmas and have the chance to discuss with their classmates.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****X764: The Politics (?) of Taylor Swift, “Taylor Swift” to “Reputation”***Emmi Farrell, Anna Pogarcic*

In this class, we’ll be exploring and analyzing the evolution of Taylor Swift’s music, from her classic and country debut album, “Taylor Swift” to her latest bombastic album, “Reputation.” How has T. Swift evolved in her lyrics, but also in the messages her songs relay? Are her songs political? Conversely, is T. Swift an apolitical figure? In modern politics, are celebrities/those with a platform inclined to be political? Is being apolitical synonymous with being complicit?

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****X864: X801: Get Vegucated!: A Beginner’s Guide to**

Veganism*Shiva Bakhtiyari, Madison Haynes*

What is a vegan? Do plants really have protein? Could a vegan survive on a desert island? Are cow farts destroying the planet? And what are all those PETA people talking about? You'll find the answers to these questions and so much more in our Beginners Guide to Veganism! This is an introduction and overview of what it is to be a vegan and follow a vegan lifestyle, so we encourage students from all points on the dietary spectrum to join us and get veg-ucated!

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****X936: Abra-CARD-abra!***Li-Chu Wong*

Want to learn cool card tricks to show off to your friends, family, and classmates? In this class, you'll learn how to perform simple card tricks that will blow their minds!

*Open to students grades 9 through 12***Sat 3:15pm–4:00pm****X967: Beyond “Love Yourself”: A Critical Look at the Body Positive Movement***Gillian Fortier, Sarah Leck*

The “BoPo”, or body positive, movement has garnered much attention in recent years, in part due to advertising and social media campaigns, such as that of Aerie and Dove. In this class, though, we'll examine: are these campaigns really body positive? For whom was the body positive movement created, and how should it be used today? What does it even mean to be body positive, and how can we create a more supportive, body positive environment within our friend groups, sports teams, and wider community?

*Open to students grades 9 through 12***Sat 3:15pm–5:00pm****X973: Black Inventors and People of Black Histories***Afi Bello*

Students will learn about Black inventors that are often not represented or spoken about in mainstream Eurocentric/Americentric/Western academic curriculum.

*Open to students grades 9 through 12***Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****X931: The Core Elements of Happiness and Well-Being***Lindsey Senatore*

The 5 core elements to achieving a life of fulfillment, happiness, and meaning.

PERMA:

P Positive Emotion

E Engagement

R Relationships

M Meaning

A Accomplishments

Do you have these in your life? What is in the way? How do you add these elements to your life?

Here, I will explain how to do this. Also, I will provide personal examples from my own life on how I did this and how it transformed my life.

*Open to students grades 9 through 12***Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm**

Course Catalog — *Science*

S946: Antibiotics and How Organisms Become Resistant

Vandna Patel

This course would take you on a journey in which you would learn about the key players who worked toward discovering antibiotics, while also understanding the characteristics of antimicrobial drugs and how organisms can become resistant to them.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S918: Biology of Opioid Crisis

Victoria Viverette, Taylor Werner, Anita Yang

Are you interested in medicine and biology? Want to gain an understanding of the detrimental effects of our nations opioid epidemic? In this course, we will dive into the basic biology of how these pain relievers work, how they can dangerously lead to life-threatening addiction and abuse, and be able to apply this new knowledge in some cases.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S767: CSI: Fact vs. Fiction

Morgan Korzik

How accurately do popular crime shows depict forensic science? What techniques are we really able to use when solving crimes? This course addresses the truth behind crime scene investigation.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

S947: Canaries in the Coal Mine: What can birds tell us about our changing world?

Tasmia Zaman

If you take care of the birds, you take care of most of the big problems in the world -Thomas Lovejoy, biologist and conservationist

Birds can be found all over, even in the most remote of places. Many of them migrate across continents, telling us about habitat conditions in vastly different parts of the world. Birds are also some of the most visible animals for us, living in our cities and backyards, flying over our heads, singing when we wake up. They need our help, and we need theirs; were all on this planet together.

Objectives: Discuss why birds are important to both the natural and human world, how they can help us understand climate change, and what we can do personally to protect them.

Open to students grades 9 through 12

Sat 10:30am–11:15am

S855: Depictions of Mental Illness in Winnie the Pooh

Annie Ford

In this course, students will use DSM-5 criteria and clips from the show to determine if the characters in Winnie the Pooh have mental illnesses, and if so, which ones. Following this, there will also be a discussion on the stigma faced by those with mental health problems.

Open to students grades 9 through 12

Sat 10:30am–11:15am

S910: Hands-on Neuroscience!

Meredith Roethling, Rayad Shams, Uchenna Uzomah

After completing this class, students will have gained an understanding of what the nervous system is made of. Students will be able to describe the parts of the neuron and their basic functions. Furthermore, students will be able to describe how neurons communicate with one another within the nervous system.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S875: Herpetology 101: Reptiles and Amphibians

Sarah Barr, Cassandra Bridges, Nicole D'Avignon

This course offers an introduction to herpetology, which is a branch of zoology that studies reptiles and amphibians. We'll learn about different types of reptiles, such as snakes, lizards, turtles, and crocodilians, and amphibians, such as frogs, toads, and salamanders. This course will go over the natural biology, feeding mechanisms, ecology, and special characteristics of each type of animal. We'll also be bringing some live ambassador animals to the program and students will be able to touch and observe snakes, lizards, turtles, and salamanders up close. Don't miss out on the chance to see feeding demos, touch snakes, and learn about some of the most fascinating creatures on the planet!

Open to students grades 9 through 12

Sat 10:30am–11:15am

S877: How Yellowstone Could Power the US: An Introduction to Geothermal Energy

Travis Broadhurst

Do you have a passion for renewable energy? Have you ever imagined using the Earth's heat, the same heat that powers volcanoes and hot springs and earthquakes, to generate electricity? This is the world of geothermal energy, where scientists and engineers are working hard to provide clean, reliable power for the future. Geothermal energy is more consistent and efficient than other renewable energy methods

and is possible all across the globe. In this class, we'll explore what geothermal energy is, how we harness it, and how much would we have to do to power society based solely off this limitless resource!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S892: Intro to Electrodynamics

John Martin

Mathematically speaking, what even is light? Is it a particle or a wave? Why can't anything travel faster than it? How can we use it to transmit information across millions of miles? Physicists spend years of formal study trying to grasp these baffling concepts, but here at Splash we will try to cover them all in one 45 minute class period. By investigating Maxwell's equations and learning the fundamentals of field theory, we will work to unravel many of the complex mysteries of electromagnetic waves!

Open to students grades 9 through 12

Sat 10:30am–11:15am

S912: Packing for Mars: The Physics and Psychology of Survival in Space

Niya Patel

Ever wondered how humans survive in the cosmos? Astronauts live for months, and even years, without gravity, proper bathrooms, hot food, and many more unimaginable things we take for granted. As weird as life in space can get, the experiments that sent humans to the moon (and beyond!) were even stranger. This course is a preview of life in space as we know it, and an exploration into the future of space travel. Based on the book "Packing for Mars" by Mary Roach.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

S844: Remaking Babies: The Ethics of Editing the Human Genome

Valerie Lucas, Hunter Moore

Remaking Babies: The Ethics of Editing the Human Genome will be an overview of the mechanisms of genetic modification of humans and the ethical questions surrounding the process. We'll explain the theoretical (for now) process of editing the genes of a human zygote and some current roadblocks to doing so. Don't try this at home! Then we'll move onto a discussion of the moral issues of this capability, like the inherent value of human beings, maximizing health, and implications of unequal access.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S828: Synesthesia: Neuroscience, Crossed Senses, and Superpowers

Emily Parker

This course will explore the meaning, variations, and ramifications of the neurological difference known to scientists as "synesthesia." Through group discussion, video analysis, and real-world examples, let's dig into this rich yet understudied aspect of neuroscience!

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

S873: The Ins and Outs of Laboratory Research

Marielle Bond, Marissa Rice, Emily Wolfram

This class will highlight basic laboratory techniques that are essential to research such as PCR, gel electrophoresis, DNA extraction, and transformations. We also will discuss what it is like to participate in research as an undergraduate and how we got involved. In addition, we will demonstrate lab techniques/experiments with a DNA experiment.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

S896: The Mind of a Murderer

Claire Ashley, Haley Clapper

Everyone knows something about the psychological case for what drives someone to kill. In this course, we want to briefly examine these psychological factors but primarily explore the biological and sociological cases for why someone may be more prone to commit murder. We will discuss differences in brain chemistry and biological responses to trauma. We will discuss sociological factors such as family life and the process of socialization during childhood and adolescence. We will discuss the MacDonald Triad and use case studies to illustrate our points.

I have an entire syllabus made, if ya'll would like to see.

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

S769: The Psychological World of Harry Potter

Callie Hucks

Missed out on your Hogwarts letter? Don't worry! In this class, you'll get sorted into houses, participate in a welcome feast, and compete in the Triwizard Trivia Tournament.

Now, I'm sure this all sounds great, but what's the basis of the class? Well, Harry Potter is a great book series to read, but it goes so much deeper than a happy little story. In this class, we're going to explore, discuss, and debate the different psychological themes J.K. Rowling presents in her novels. From racism to child abuse, come get a deeper understanding of the books we all love (and grab some free candy while you're at it!).

Open to students grades 9 through 12

Sat 10:30am–12:15pm

Sat 2:15pm–4:00pm

S770: The Science Behind Dying Coral Reefs

Lily Olmo

You've probably heard that our coral reefs are dying. What exactly does that mean? This course will cover the science behind coral reefs, specifically what threatens them in today's changing ocean environment. The last portion of the class will introduce why we should care about coral reefs, while providing suggestions for how we can help as individuals concerned about our environment.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S785: What's for Dinner?

Rahul Gupta

Most people say eating healthy is tough.

This course will give students an overview of proper diet, with a focus on metabolism and obesity. We will also look at how professional athletes' diets help them perform for competition.

Open to students grades 9 through 12

Sat 10:30am–11:15am

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

S814: Alchemy as a Precursor to Science

Melissa Mishler

Here will examine the basic principals of alchemy as well as how it influences later sciences. We will look at ethics, methods, and other central ideas and compare and contrast.

Open to students grades 9 through 12

Sat 11:30am–1:15pm

Sat 2:15pm–4:00pm

S856: Candy Neuroscience

Annie Ford

In this course, students will construct a neuron using different kinds of candy to correspond to each part. As the neuron is put together, the role of each piece will be explained. Time permitting, we will zoom out from the neuron and talk more broadly about the neuron's function in the brain and how that affects us as humans.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

S888: Einstein and His Equations: Intro to Special and General Relativity

John Martin

We all know Einstein was a smart guy...but have you ever actually seen his equations? In this course we are going to investigate and breakdown the fundamental equations and physics represented by Einstein's theories of special and general relativity. This course will also try and delve into some of the non-Euclidean geometry and tensor manipulations and the implications in fields like cosmology and astrophysics.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

S794: Orthopedic Disorder-Scoliosis

Alexa Bird

In this class, we will be discussing anything and everything Scoliosis! The class will cover the 5 main types of the disorder, causes, symptoms, risk factors, treatments and more. Are you interested in medicine, specifically orthopedics, or perhaps do you have Scoliosis? Take this class and gain an insight into this very common, yet very little talked about disorder.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S893: Reptile Husbandry and Care

Cassandra Bridges, Morgan Holder, Emma Karlok, Seraphina Wong

This class teaches about reptile husbandry, which includes information on appropriate enclosures, heating devices, and diets for beginner pet snakes, lizards, and turtles.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

S906: Trust Your Gut: Split Second Decision Making

Isaiah Kim

Have you ever looked at a test question and just felt that choice C was the correct answer? Learn what's happening inside your head when you get that "gut-feeling" and how to train yourself to make better split second decisions.

Open to students grades 9 through 12

Sat 11:30am–12:15pm

Sat 12:30pm–1:15pm

S775: Cookie Chemistry

Natalie Daumen

Learn what science goes into making the classic dessert!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Class is FULL!

S796: Healthcare from a Population Health Perspective

Shrey Patel

Healthcare is a constantly changing field. In this class, we will discuss the various changes that are being made in healthcare from a population level. Specifically, we will analyze interventions and changes being in healthcare settings in order to improve population health.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

S920: Our Environment is in Jeopardy

Marium Konsouh

A series of topics in relation to environmental science will be discussed in a jeopardy game. Topics discussed will be

climate change, city and regional planning, water rights and management, smart cities, and environmental law.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

S822: Overview of the Body's 11 Systems

Jessica Wangler

This course will briefly cover the 11 different systems of the human body including: Skeletal, Reproductive, Urinary/ Renal, Muscular, Nervous, Digestive, Endocrine, Respiratory, Cardiovascular, Lymphatic, and Integumentary systems and the organs associated with each system. The course will be understandable for all levels of understanding and familiarity with the human body. Students may be required to move around the classroom. The class will be interactive and fun!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 4:15pm–5:00pm

S889: The Big Bang Until Today: History of the Entire Universe

John Martin

Taking American History for the third time isn't your thing? Annoyed for taking a full year of classes devoted to ~300 years of history on Earth? Frustrated by the fact you can and will be able to spew out the birth dates of all 44 presidents for the next 30 years? No longer will your time be wasted with memorizing uninteresting facts that have no relevance to your current life! This course is a 50 minute summary of the entire history of the universe with take away facts that are actually interesting and that you won't be embarrassed to share with your hip friend group.

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

S795: The Future of Electricity

Isa Ferrall

What is something that affects you every day, and yet you probably have no clue where it comes from or how you get it. It might as well be magic for you and and 6.3 billion other people around the world.

In this class we will look at what is electricity (electrical engineering), different ways of making it (types of energy sources), how it gets to you (electric utilities), and how the whole system is about to get turned upside down by new technologies, new markets, and the threat of climate change.

No matter how much we learn, there is still a lot of magic to electricity. Even today, the experts say that "The electric grid is a system that works in practice, but not in theory." And it is about to get a lot more complicated!

Open to students grades 9 through 12

Sat 12:30pm–1:15pm

Sat 2:15pm–3:00pm

S885: Chemistry as a Catalyst

Ushma Vaidya

This course will engage students in introductory level science activities as a way to look at the different ways that science can become interactive within the classroom.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

S860: Girls in STEM fields

Morgan McFadden

Interested in going into a math / science field? It can sometimes feel like you're outnumbered or outspoken as a female in these areas of study, but that shouldn't discourage anyone! This course will provide an overview of women who made great scientific contributions while paving the way for other women in the field and will then open up into discussion on personal experience as well as questions for me.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

S816: Half Human: an introduction to the microbiome

Grace Ratley

Meet your other half in this introduction to the microbiome, the bacteria that live on and in your body. In this class, we will discuss the composition of the gut microbiome, its relationship with immune and psychological health, and the application of this information to diet. *Snacks provided!*

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

S908: Hands-on Neuroscience!

Bethany Bearden, Abria Bradby, Haley Kirse

After completing this class, students will have gained an understanding of what the nervous system is made of. Students will be able to describe the parts of the neurons and their basic functions. Furthermore, students will be able to describe how neurons communicate with one another within the nervous system.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S768: Human Osteology: Skeletal Science

Nathan Benn

Human Osteology is the study of skeletal elements, teeth, pathology, disease, and the ossification of bones. This course addresses how sex, age, and stature are determined from various bones in archaeological and forensic contexts. Students will be able to examine and handle skeletal molds in this class.

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

S890: Intro to Quantum Mechanics: The Microscopic World*John Martin*

We live in a world where we want to be confident in our expectations. We want concrete answers, predictable outcomes, and consistent truth. But what if I were to tell you our world was largely governed by all but the opposite?

In this class we will discuss the probabilistic nature of our world and the implications it has to our modern interpretation of physics.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****S850: Make your own Microscope!***Katelyn Hammel*

Do you wish that you could have a microscope at home that could let you see everyday objects in totally new ways? If so then this is the class for you! In this class we will build homemade microscopes that have a 40x magnification. These microscopes can be used to see and take pictures of objects as small as cells! All materials for the microscopes are provided but please bring a smartphone or tablet with a camera and anything that you think would be cool to see magnified!

*Open to students grades 9 through 12***Sat 2:15pm–4:00pm****S911: Mixed Emotions***Allie Day, Anne Marie Stonehouse*

We've all experienced joy, anger, and sorrow, but have you ever felt *liget*? Despite popular belief, emotions are not universal or biological. Join us to explore the hidden psychological world of emotions and to debunk some myths about them.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****S897: Mythbusters***Cameron McNeill*

Don't just tell the myths, put them to the test! We will investigate some common myths and test their validity using the scientific method.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****S830: Sick No More! Self-Care Methods for Treating and Preventing Illness***CAPS Pharmacy, Sarah Shockley*

Pharmacists are the only healthcare professionals who are formally educated on over the counter medication use. Learn from current UNC Eshelman School of Pharmacy students how to properly use over the counter medications and non-drug measures to treat ailments such as the common cold, seasonal allergies, fever, and more!

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****S968: The Arrow of Time: How the Universe Might End***Boris Mesits*

Will the universe end in a Big Freeze, Big Crunch, or Big Rip? This is a course on our place in the cosmic timeline. We will review the history of our understanding of cosmology. Then, referencing the most recent research into astronomy, cosmology, and physics, we will learn how scientists are able to forecast the mind-bendingly distant future. This will be a rewarding experience for anyone fascinated by black holes, interstellar civilizations, or space in general.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****S859: The Blood and Butter of Medicine: Clinical Laboratory Science in Pop Culture***Jessica Beynor, Toritseju Kpenosen, Laura Sanford, Laura Wiser*

Come take an in-depth look into the science behind the diagnoses in our favorite shows, like Grey's Anatomy and Bones. We will go through multiple case studies and teach you what really goes on behind the scenes in the lab.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****Sat 4:15pm–5:00pm****S838: The Brain: Mysteries, New Findings, and an Overview***Mark Burnett*

In this class we will discuss the three main parts of the brain: the forebrain, the midbrain, and the hindbrain. However, this will not be your typical anatomy class. An introduction will be presented on how the brain works, but the rest of class will cover the mysteries of the brain, recent discoveries about the brain, and new medical applications for the brain.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****S829: The Fermi Paradox: Why aliens *statistically* exist and why we will never interact with them***Roark Habegger*

This course will be a discussion of the Drake Equation, calculating the number of planets/systems in our galaxy that could have life on them, as well as a discussion of the cosmic distance ladder to show the unlikelihood of us ever getting to interact with an alien species that might exist.

*Open to students grades 9 through 12***Sat 2:15pm–3:00pm****Sat 3:15pm–4:00pm****S879: What the health is going on?! A Look into the US Healthcare System***Anita Amin, Katie Toles*

This will be a crash course on how Americans get their health insurance (or not) and why it is so controversial. We will cover current topics in the news as well look at the basic structure

of our system. Do you want to walk away with a good understanding of where the thousands of dollars you will spend per year on healthcare go? Do you want to better understand words in the news like Medicare, deductibles, Obamacare, and universal health insurance? If yes, then sign up!

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S789: Youth Mental Health Awareness

Shelby Anderson, Rebecca Burton

Overview of the most common mental health issues in teenagers, the stigma surrounding it, issues causing it, and resources for it

Open to students grades 9 through 12

Sat 2:15pm–3:00pm

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S876: Animal Health

Courtney Byrd, Nicole D'Avignon, Simone McCluney

Learn about various aspects of animal health and veterinary science with four different focus areas: domestic animals, livestock, exotics, and native wildlife! We'll cover a few case studies in each section and get to meet some live animals.

Open to students grades 9 through 12

Sat 3:15pm–5:00pm

S961: Decoding Medical Lingo

Ashley Sapp

Have you ever wondered what the health professionals in House, Grey's Anatomy, Law and Order, and other health-related TV shows are saying? By the end of this course, you'll be able to easily decode complex medical terms! Regardless of whether you pursue a health-related career or not, you will be able to walk away with valuable knowledge that you can use for the rest of your life!

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S842: How Do We Get Sick?

Alex Muma

How do you get sick? Why isn't my body better yet? Why don't these medications help? Please help, my nose has been

stuffed for 3 weeks. If you've ever been in any of these situations and wondered about the microscopic world of how pathogens infect humans, then you have come to the right place. This course will introduce brief topics on the pathology of bacterial and viral infections, the immune system, and the disgusting world we live in.

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S953: Mosquitos Suck: An Introduction to Vector Borne Disease

Griffin Bell, Ami Shiddapur

The infamous black plague in Yosemite? A mosquito-borne virus which can induce long-term arthritis? How about a protozoan parasite transmitted by a 'kissing bug' over one inch long? Vector-borne pathogens are incredibly diverse, and with the changing climate, they're becoming more widespread. Join us as we learn about these fascinating diseases, and investigate some outbreaks of our own in our hands-on Disease Detective activity!

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S791: The Chemistry of Making Ice Cream

Emma Ehrhardt

The course will discuss the science of colligative properties and how that can be applied to the activity of making ice cream. The focus will be on how solutes affect the properties of their solvents.

Open to students grades 9 through 12

Sat 3:15pm–4:00pm

Sat 4:15pm–5:00pm

S901: Is Warp Drive possible? Analyzing the Science behind Star Trek

Esther Lee

Ever wondered if it's possible to warp drive through space? Or if it's possible to create transporters to beam us across to different places? In this class we will discuss the science behind Star Trek as well as how it has influenced our scientific development.

Open to students grades 9 through 12

Sat 4:15pm–5:00pm

Course Catalog — *Walk-in Activity*

W831: Citizen CPR

Caroline Billingsley, Marco Chumbimuni

Teaching and demonstrating citizen CPR. This non-certifying activity will give you the skills to know what to do in an emergency. Also will inform about certification and other first aid.

Projectors will be used in this course for a visual aide.

Open to students grades 9 through 12

Sat 10:30am–12:15pm