

Course Catalog — *Arts*

A20: Cake Decorating 101 - Buttercream Basics

Emili Hall

This class is an introduction to basic cake decorating skills! It includes how to fill an icing bag, how to ice a cake, and how to create simple borders! Basics about creating a delicious buttercream will also be presented. Come if you love sweets and want to surprise your family and friends with a super useful, new skill!

PLEASE NOTE: This class is double-blocked; each section will run approximately 90-120 minutes.

Open to students grades 9 through 12

Sat 9:00am–10:50am

Sat 1:00pm–2:50pm

Class is FULL!

A29: Dances of India

Akanksha Arora

Calling all guys and gals! Join me as we learn 4 different dance styles from India! Get ready to move to the upbeat and fun Indian rhythm with dance forms from all over the country. Just bring yourself and no other special equipment.

Further details: We will be learning Bhangra (folk dance from Northern India), Dandiya (folk dance from Western India), Bharatanatyam (classical dance), and Bollywood (dance from

movies, more modern). I will go over a little bit of the origin of the dances, and we will watch videos of various dancers.

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

A23: Music Theory 101

Aaron Dallman

In this course, we will dive into the beginning skills needed to analyze music. Skills taught will include: analyzing chord progressions, voicing chord changes, and listening critically to music. Students will also have the opportunity to compose their own music. The course will be taught with a combination of classical music and contemporary music in mind. This course will be interactive and feature both lecture and discussion.

Open to students grades 9 through 12

Sat 9:00am–10:50am

Sat 1:00pm–1:50pm

Course Catalog — *Humanities*

H41: All the news that's fit to print: an introduction to journalism

Jenny Surane

We'll go over news values and the building blocks of a good news story. Come with story ideas about your community and we'll turn those ideas into articles fit for print!

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

H10: Creative Writing

Jennifer McKinney

This class will focus on honing specific techniques and skills in both creative fiction and non-fiction. We will focus on techniques for telling stories as well as experimenting with point of views and structure. This class will allow students to choose between fiction writing, short stories, personal essays, memoir, travel writing, and other various platforms for expression.

PLEASE NOTE: This class is double-blocked; each section will run approximately 90 minutes.

Open to students grades 9 through 12

Sat 9:00am–10:50am

Sat 1:00pm–2:50pm

H15: Living Poetry

Amanda Robinson

Hate poetry? Think it's too boring, too outdated, or too hard to understand? You're not alone. This course aims to help students who find poetry boring or daunting discover a love for the art. We will ignore the old, stuffy "canonized" works that get that get thrown at students year after year and make poetry fresh, new, and alive. You don't have to be a renowned English scholar or poet laureate to appreciate poetry as an art of expression and learn to have fun with it!

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

H37: Fashion Through the Ages

Paulina Powierza

We will look at Western fashion from the 1400s to the 1990s by examining pictures, paintings, and other online resources. We will look at popular materials and colors used and try to understand why people wore what they did. The lecture will be interactive with fun games, surveys, and videos.

Open to students grades 9 through 12

Sat 10:00am–10:50am

H34: From King Bolden to King Kendrick: The History of Jazz and Popular Music

Samuel Schaefer

This course will give a brief overview of the history of jazz as it intersects with and shapes popular music, often in ways that have gone unnoticed. It will start with the birth of jazz in New Orleans around the turn of the 20th century and track its development over more than 100 years, ending with jazz's place in today's progressive hip-hop scene.

PLEASE NOTE: This class is double-blocked; each section will run approximately 90-120 minutes.

Open to students grades 9 through 12

Sat 10:00am–11:50am

Sat 1:00pm–2:50pm

H40: Professional Communications

Almon Hall

In today's world soft skills are the determining factor when evaluating candidates who are of equal technical skill. This course focuses on topics that make successful speakers and presenters.

After reviewing basic presentation topics and doing activities to highlight these topics, each student will give a short presentation on a fun topic with on the spot feedback from the instructor and their peers.

Open to students grades 9 through 12

Sat 10:00am–10:50am

Sat 3:00pm–3:50pm

H35: Slacktivism?: Social Media, Hip Hop, and Making a Change

Griffin Lerner

#Kony2012 #BringBackOurGirls #JusticeForTrayvon

Look through your feed on Facebook or Twitter and you're bound to see people sharing pictures, videos, or other material advocating for a cause. But is typing behind a computer screen really doing anything? Proponents call it Hashtag activism, while critics call it Slacktivism – this class will challenge students to rethink the nature of activism. We'll examine how people are using social media, hip hop, and technology to advocate for modern issues. From Ferguson to beat-making labs in the Congo, students will leave class with a new understanding of how to be activist in the modern age, with music and technologies as their allies.

Open to students grades 9 through 12

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 2:00pm–2:50pm

H39: Changing Faces Of America

Almon Hall

The course is designed to improve your awareness of the importance of effectively managing diversity not only as a social or moral goal, but also as a sound business practiceenlightened self-interest. . Toward this end, the goal is to heighten your sensitivity to the unique characteristics of groups that are newly present or increasingly present in today and tomorrow's America.

Open to students grades 9 through 12

Sat 11:00am–11:50am

Sat 2:00pm–2:50pm

H32: Intro to Feminism

Liv Linn, Sarah Pederson

Are you scared of the F-word? Do you love (or loathe) Beyoncé? We'll talk about the good, the bad, and the ugly of feminism's portrayal in pop culture. This workshop is open to everyone, regardless of whether or not you identify as a feminist. This will be an open dialogue in which we'll break down words like "patriarchy" through fun mediums like TED talks, music videos, and social media.

Open to students grades 9 through 12

Sat 11:00am–11:50am

Sat 3:00pm–3:50pm

Class is FULL!

H25: Introduction to Phonology

Lan-Anh Vo

This course will provide students with a basic introduction to phonology, the branch of linguistics which examines sound patterns in language. Topics covered will include natural classes, sound alternations, and the implications our mental grammar has for second language acquisition. This class will be highly interactive, and will feature examples from a wide variety of languages.

Open to students grades 9 through 12

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

H13: Moral Murder and Runaway Trains

Courtney Sams

Can it be morally right to run humans over with trains? What if the "human" is your mother? Is murder ever acceptable?

Using the philosophical "trolley problems" as our basis, we will explore where our morals come from and just how far they can lead us. No specific moral system will be encouraged, but we will think critically about the pitfalls and challenges of many dominant theories.

Open to students grades 9 through 12

Sat 11:00am–11:50am

H24: What is Disability? A Critical Study of the Disability Movement in Western Culture

Aaron Dallman

In this course, we will analyze the history of disability tracing it's origins from the 1600's to 2015. We will learn several models of disability and consider how they relate to multiple fields of study. This course will encourage critical thinking as we consider health. Students interested in the healthcare fields such as medicine, therapy, or social work will benefit from this course.

Open to students grades 9 through 12

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

H7: Intro to Entrepreneurship

Kanny Morgan

This course will give students a general understanding of Entrepreneurship and the world of start-ups, as well as introduce students to the lean start-up method. An interactive class where students are presented with problems, asked to collaborate on teams to solve these problems and then prepare a short pitch about their innovative solution.

PLEASE NOTE: This class is double-blocked; it will run approximately 90-120 minutes.

Open to students grades 9 through 12

Sat 1:00pm–2:50pm

Course Catalog — *Lunch*

L46: Lunch Period

Open to students grades 9 through 12

Sat 12:00pm–12:50pm

Enjoy a break for lunch with your friends! Please register for at least one lunch period on each day of the program.

Course Catalog — *Math & Computer Science*

M44: What is computer programming?

Matthew Leming

What is coding? What is a computer program? While aspects of the tech bubble are covered hour after hour on the news, many high school students still don't know what computer science really is, let alone how to get good at it, what it entails, and how to get started. When I was in high school, I believed that computer programmers were weird people that literally typed 1's and 0's all day. When someone in my math class talked about making programs on their calculator, I mainly saw a glass ceiling.

This seminar is targeted at those curious students that have

no experience with computer programming. We will first cover fundamental concepts what coding is, what constitutes a computer program that a student can easily write, and what the tech community is like as a learning environment. This will be followed by hands-on examples of code covering the core concepts of a program branches, loops, and variables.

Again, all students are welcome to come, especially those curious students with no experience whatsoever in computer programming!

Open to students grades 9 through 12

Sat 10:00am–11:50am

Course Catalog — *Miscellaneous*

X30: Amateur Vexillology

Colin Kantor

You probably know why the U.S. Flag has thirteen stripes, fifty stars, and uses red, white, and blue. But why does France's flag use the same colors in vertical bands, while Russia's uses horizontal ones? In this class, we will examine flags of the world, both contemporary and historical, to learn about what makes symbols and colors significant. We will also explore the 'anatomy' of a flag, and each student will create his or her own representational flag based on these principles.

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 1:00pm–1:50pm

X9: College Admissions 101

Ashish Khanchandani

This course will give students a quick run-through for everything they will need to know for the college admissions process. This ranges from SAT's to deadlines to interviews and much more!

NOTE: This class is double-blocked and will meet for approximately 90-120 minutes.

Open to students grades 9 through 12

Sat 9:00am–10:50am

X28: How to Win Your High School Election

Samuel Chao

Holding leadership positions is one of the most desirable traits in college applicants. This course will provide tips on how to improve public speaking and speech writing skills, both essential for winning elections. Students will be broken up into three "campaign groups" who will support their respective candidates in a mock election.

Candidates who present the best speaking skills and election speeches will earn a super awesome prize for their campaign members!!

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

X43: Local Activism 101

Sarah Coats

Have you ever wanted to make a difference in your community but didn't know where to start? Start here! Come learn simple ways of being an activist in your community.

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 1:00pm–1:50pm

X33: Not Your School's Sex Ed

Liv Linn, Sarah Pederson

Do you have questions/concerns about sex, but feel like there's no where to talk about it openly and honestly? This workshop will discuss the often conflicting and confusing messages we get about sex from multiple sources (from media, to school, to religious institutions, to family). We will discuss how to critically read these messages and how to make healthy and safe choices (some topics covered will be consent, sexual violence, the virginity myth, LGBTQ sex, and more). We want to get really real about sex because NC bans a lot of discussion about sex about information is power!

Open to students grades 11 through 12

Sat 2:00pm–2:50pm

Sat 9:00am–9:50am

X12: Rice through the Ages

Kristen Chung, Pranavi Sanka

We're going to bring a conversation about rice to the table. In this class, you'll learn about the complexities of this simple grain. We'll explore the social, historical, economic, and scientific impacts of rice. Then, we will sample rice from around the world.

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 3:00pm–3:50pm

X21: Traveling 101: Becoming a Student of the World

Caitlin Peterson

Dream of travelling the world as soon as possible? Have you already traveled but want to become more expert in your adventures? Thinking about traveling in the future but unsure if it's the right choice for you? Then come to Traveling 101, taught by an internationally seasoned traveler who has been to five continents and come back with plenty of wisdom to share! We'll talk about everything from traveling safety to travel on a budget to becoming less of a tourist and more of a student of the world, as well as any other questions and concerns you may have about traveling. Whether domestic or abroad, there's a wealth of information to be had for anyone interested, so come on out for a good time and lots of knowledge!

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

Course Catalog — *Science*

S8: Marine Biodiversity

Rachel Snider

Over 75% of the world is covered in water, and life as we know it could not be possible without the biodiversity that exists in the ocean. From important medicines to food, people all over the world depend on the oceans to survive. This course is an introduction to marine biodiversity and its importance to humans.

Open to students grades 9 through 12

Sat 9:00am–9:50am

Sat 10:00am–10:50am

S31: Chemistry as a Catalyst

Ushma Vaidya

The purpose of this class is to take the basic knowledge that students learn in their standard or honors level chemistry courses in high school and apply it to fun and interactive activities. Through this class, students will engage in hands on activities that help to broaden their knowledge, as well as interest, in chemistry. Examples of activities include making elephant's toothpaste, learning the science behind color changing milk along with other chemistry-based exercises!

Open to students grades 9 through 12

Sat 10:00am–10:50am

Sat 11:00am–11:50am

Sat 2:00pm–2:50pm

S6: Sports Medicine

Jackson Thompson

This course is designed to engage interest in the sports medicine field, covering the basics such as taping, wrapping, understanding roles of different types of staff, and more!

Any students interested in the medical field should look into this class.

Open to students grades 9 through 12

Sat 10:00am–10:50am

Sat 3:00pm–3:50pm

S11: Marine Biology

Laura Diez

We will focus on the animals that make the ocean the wonder it is. We will pay particular attention to keystone species and threats, such as invasive, whose presence effects the entirety of the communities in which they live.

Open to students grades 9 through 12

Sat 11:00am–11:50am

Sat 1:00pm–1:50pm

Sat 2:00pm–2:50pm

Sat 3:00pm–3:50pm

S42: Epidemics!

Kayleigh O'Keeffe

We will focus on epidemic dynamics, discussing epidemics occurring now, like that of Ebola virus, as well as those that have occurred throughout history, like the black plague. We will also discuss epidemics that affect organisms other than humans, happening around us all the time to plants and animals. We will pay particular attention to learning factors that affect epidemics, like transmission, progression, and containment.

Open to students grades 9 through 12

Sat 2:00pm–2:50pm

Sat 1:00pm–1:50pm

S22: Heat Transfer

Meelad Alinaghian

Ever wondered what is going on when you're hand is freezing or burning? What is going on in an ice pack? Or how to melt Styrofoam? This class will give you a basic understanding of heat transfer, endothermic and exothermic reactions, and how they relate to your interactions with materials giving off heat.

Open to students grades 10 through 12

Sat 3:00pm–3:50pm