

# Honors Freshmen Seminars, Fall 2018

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## **Art Connections: Haiti & Louisiana**

**Class # 20499**

**Instructor: Accilien, Cecile**

W, 03:00 - 04:15 PM (10 class sessions)

**Seminar Description:** This seminar will introduce students to the multiple historical and cultural links between Haiti and Louisiana, especially New Orleans through various lenses. The course will be in conjunction with the semester long exhibit "Haiti, New Orleans and the Ties that Bind: The Art of Ulrick Jean-Pierre in Comparative Perspective" to be held from September 8-January 7, 2019. Students will actively engage with the work of art throughout the semester. Students will also be required to participate in the symposium "The Unexpected Caribbean" that will be held from October 18-20th. Writer Apricot Irving, author of *The Gospel of Trees* (One of the texts that we will read during the semester) will give a keynote address at the symposium. We will also read the common book *Create Dangerously: The Immigrant Artist at work* by Edwidge Danticat. Among the themes we will explore in the class through the exhibit are: Historical connections between Haiti and New Orleans; Historical characters: Jean Baptiste Pointe du Sable, John James Audubon; The artist as a cultural marker; What does it mean to be an artist engagé?

**Who would most benefit from this seminar:** Students who are interested in the following topics: Caribbean literature and culture, Louisiana (New Orleans) culture, History, American Studies, Nature, Art, Visual art and culture, Representation of Women, Historical Figures, Religion: Christianity and Vodou.

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## **A Just Machine**

**Class # 20500**

**Instructor: Alexander, Perry**

Tu, 04:00 - 04:50 PM (15 class sessions)

**Seminar Description:** "A Just Machine to make big decisions, programmed by fellas' with compassion and vision, what a beautiful world it will be." Prophetic words from Donald Fagen of Steely Dan fame in 1982 describing a future, perfect world. In our tutorial we will look at how David Hilbert's challenge problems, Goedel's proof, and Turing's mathematical machine contributed to the search for A Just Machine that could flawlessly solve all our hardest problems. We will see their failures, their successes, and how both contributed equally to the industrialization of information. We will examine how language and computing are intimately tied in the work of Chomsky and the work of Polish and British codebreakers during a world war. No prior computing or mathematical experience required.

**Who would most benefit from this seminar:** Anyone interested in information and the philosophy of computing. CS, mathematics, and philosophy students would particularly benefit, but anyone interested in the humanities or the sciences would enjoy the material.

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## **Eliminating World Poverty by 2030: Is this Goal Realistic?**

**Class # 29483**

**Instructor: Asiedu, Elizabeth**

Th, 02:15 - 03:30 PM (10 class sessions)

**Seminar Description:** In September 2016, the United Nations adopted the [Sustainable Development Goals](#) (SDGs). The SDGs comprise of 17 Sustainable Development Goals to be achieved by 2030. Goal 1 of the SDG aims to "eradicate extreme poverty for all people everywhere". The seminar will examine the challenges faced by poor countries in achieving Goal 1.

**Who would most benefit from this seminar:** Students interested in poverty issues in poor countries.

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## **Stepping Up: Becoming an Effective Leader**

**Class # 24588**

**Instructor: Barnes, Kay**

M, 11:30 - 12:45 PM (10 class sessions)

**Seminar Description:** This seminar will focus on a variety of approaches to becoming an effective leader including internal, interpersonal, systemic, and cultural considerations. Personality assessments, methods for

dealing with conflict, and public speaking techniques will also be included. In addition, there will be a focus on the leadership styles of famous Americans, past and present, along with lively class discussions.

**Who would most benefit from this seminar:** Any students who recognize "being a leader" as a role they wish to assume during their lifetimes.

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**Benefits of Interdisciplinary Approach to Undergraduate Education: Exploring Subtle Parallels between Chemistry and Music** **Class # 20463**

**Instructor: Barybin, Mikhail** M, 03:00 - 03:50 PM (15 class sessions)

**Seminar Description:** Learning solely within disciplinary matrices may not only hinder creativity but also bias students against being fully objective when it comes to judging existing paradigms. In this seminar, we will consider Chemistry and Music as platforms for examining intersectionality between the sciences and the arts. A teaser: "Where Music has its octave, Chemistry has its octet." Appreciating the parallelism between Chemistry and Music facilitates understanding of both subjects. These two seemingly orthogonal disciplines have strikingly common mathematical roots. Do you think a lemon can sing? Well, in this seminar you will have a chance to make one do so. Can an audible sound force molecules to dance? Yes, it can, and in some cases this process of "dancing" culminates with the assembly of highly ordered supramolecular nanofibers. How about creating music from the energy spectra of radioactive isotopes? What do a famous Broadway musical and the aldol condensation reaction have in common?

**Who would most benefit from this seminar:** Anyone is welcome, especially incoming Honors freshmen contemplating to pursue a Chemistry-related major or minor who happen to be music enthusiasts (broadly defined, no familiarity with music theory or composition is expected). Join us reflecting on some key concepts in Chemistry and all that jazz!

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**Introduction to Adaptive Leadership**

**Class # 22854**

**Instructor: Beeson, Jessica** W, 10:00 - 10:50 AM (15 class sessions)

**Seminar Description:** The foundation of the adaptive leadership model is based on the premise that leadership is a process not a position. We are given opportunities to practice leadership every day when faced with challenges that resist easy solutions. In this course we will dig into the four core competencies of adaptive leadership as defined by Ronald Heifetz and Marty Linsky. These competencies provide a framework for tackling complex issues by shifting our focus from finding solutions (that often only act as band-aids) to energizing yourself and others to make intentional and lasting progress. When we practice adaptive leadership, we are forced to critically analyze our own value systems, beliefs and interpretations. It is difficult and exceptionally rewarding work.

**Who would most benefit from this seminar:** It's good for everyone!! It will serve especially well anyone thinking about going into politics or non-profit work. Also anyone interested in doing social justice work--like forming grassroots movements to create change in their community.

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**The Moral Arc of History**

**Class # 29316**

**Instructor: Besson, Dave** F, 01:00 - 01:50 PM (15 class sessions)

**Seminar Description:** Paraphrasing Abolitionist and Transcendentalist Theodore Parker, Martin Luther King said, in The Gospel Messenger: "The arc of the moral Universe is long, but it bends towards Justice". We'll consider this statement both historically and also as it applies to 2018, specifically considering, e.g., whether #MeToo and other contemporary social currents demonstrate forward progress.

**Who would most benefit from this seminar:** Anyone who would like to have their idealism about people and humanity affirmed.

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**An evolutionary history of genome hacking.****Class # 29482****Instructor: Blumenstiel, Justin** M, 02:00 - 02:50 PM (15 class sessions)

**Seminar Description:** In the era of CRISPR, humans have developed the ability to reprogram the source code of life in the form of genome engineering. To achieve this, humans have exploited a range of tools provided by bacteria and viruses. These tools are possible because viruses and bacteria have evolved their own strategies of genome hacking and humans can now use them for their own purposes. This seminar will provide a survey of strategies, evolved over billions of years that viruses, transposable elements and bacteria use to manipulate DNA. It will further outline how humans have used these tools to enable genetic engineering. Students participating will learn fundamental principles of host-parasite conflict, the enzymatic manipulation of DNA sequences and methods of genetic engineering with restriction enzymes, RNAi and CRISPR.

**Who would most benefit from this seminar:** Students that are curious about genetics, evolution, and genetic engineering.

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**Microbes Making Food****Class # 29502****Instructor: Burgin, Amy** Th, 12:30 - 01:45 PM (10 class sessions)

**Seminar Description:** Take a second to list your favorite foods. Did you think of cheese, bread, yogurt, pickles, chocolate, mushrooms or coffee? Every time you eat these delicacies, you can thank a microbe for its part in making the food. This course establishes a basic understanding of microbiology, a history of food culturing and preservation, and the specific microbiology of some of our favorite foods. And yes, of course, we will eat.

**Who would most benefit from this seminar:** People who like to eat, are interested in making their own food, and/or are curious about the emerging field of microbiomes (microbes that inhabit and alter specific environments, including our bodies and our food).

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**The Nuclear Power Option in the 21st century****Class # 20497****Instructor: Camarda, Kyle** W, 09:00 - 09:50 AM (15 class sessions)

**Seminar Description:** This seminar will examine the use of nuclear power as part of a portfolio of energy options for countries around the world. We'll discuss the technologies used to produce power from nuclear sources, the history of the nuclear power industry, and the global security implications of nuclear power.

**Who would most benefit from this seminar:** Seminar would be great for engineering students (but certainly not overly technical) so also any students interested in energy policy or governmental decision-making in general.

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**Women Nobel Peace Prize Winners: Changing the World from the Grassroots to the World Scene****Class # 22855****Instructor: Carlin, Diana** M, 01:30 - 02:45 PM (10 class sessions)

**Seminar Description:** This course examines the women Nobel Prize winners, many of whom started as ordinary women who went on to draw the world's attention through their activism. The path each woman took to reach the stage in Oslo, Norway and their work after receiving the Peace Prize are explored with an emphasis on their rhetorical activities. A brief history of the Nobel Peace Prize is given to provide context. The course includes documentary films about some of the women and videos of the Nobel Peace Prize concert with an emphasis on the music selections for each Laureate. Assignments include critical analyses of the films and concerts, a short paper analyzing a Laureate's acceptance speech, and a book review of a book written by or about a winner.

**Who would most benefit from this seminar:** The content appeals to students in women and gender studies, peace studies, communication, political science, film studies, and history.

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## **An Uncertain Future: Where Does Science Fiction Suggest We Are Heading?**

**Instructor:** Casavant, Michele      W, 02:00 - 02:50 PM (15 class sessions)      **Class # 2048 I**

**Seminar Description:** Through examining science fiction this course will help you become more critically aware of the society and culture in which you live. Through analyzing popular culture, such as film and television, you will gain a better understanding of certain ideologies and beliefs that are experienced and expressed by many Americans. We will also explore different types of cultural theory, which will aid in our analysis and our critical approach to culture. In addition, this course will help you understand how our American identities are dependent on many interconnecting forces, such as race, gender, class, histories, sexuality, and others. This course will also allow you to ponder how science fiction envisions our future and analyze the current constructs on which those future realities are founded.

**Who would most benefit from this seminar:** This class would be good for anyone who wants to learn more about his or her own society and the influence popular culture has on us. It is also a good class for students who love science and/or enjoy analyzing television and movies.

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## **Just Breathe: Mindfulness in the Modern World**

**Class # 2283 I**

**Instructor:** Chen, Yvonne      W, 01:00 - 01:50 PM (15 class sessions)

**Seminar Description:** Mindfulness has entered into the American mainstream lexicon with its share of attention in media coverage. Headlines from “Meditation exercise helps students focus,” “Enjoy a party with yoga and color” to “Everyone has time to meditate” underscore how much mindfulness practices have been integrated into our daily lives. Further, mindfulness-based practices have been touted as a modern-day panacea that prevents and reduces stress and depression as well as improves social and emotional wellbeing in children and adults. But what is meditation? Does it really work? How is ‘mindfulness’ popularized in our society and in the mainstream media? In this seminar, we will (1) discuss the origin, popularization, and precautions of meditation practices, (2) give you a skill to evaluate mindfulness-based interventions in scientific literature, (3) examine how mindfulness practices are promoted in the media, and, finally, (4) provide hands-on practices to help you meet the demands of the modern world. Are you ready to breathe together?

**Who would most benefit from this seminar:** Open-minded learners interested in the integration of body, mind and spirit.

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## **Legacy, Leadership, and Collections: Interpreting the 20th Century with a Congressional Archive**

**Instructor:** Coleman, Audrey      M, 02:45 - 04:00 PM (10 class sessions)      **Class # 23769**

**Seminar Description:** Congressional Archives, like that of US Senator Bob Dole housed at the Dole Institute of Politics, are a window into the process of governing and a mirror reflecting American politics, policy, and culture. We’ll use the Dole Archives, other cultural heritage collections, and intergenerational conversation to explore the 20th century and its connections to today. Student projects will culminate in the conceptualization of an exhibit to be displayed at the Dole Institute during Spring 2019 semester.

**Who would most benefit from this seminar:** This seminar will be of interest to a wide variety of students, especially students interested in history and politics; visual storytelling, exhibits, and collections; leadership; and the intersection of public policy to your anticipated field of study.

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## **Slavery Narratives in the Americas**

**Class # 28432**

**Instructor:** de Andrade Tosta, Antonio      Tu, 12:00 - 12:50 PM (15 class sessions)

**Seminar Description:** The enslavement of Africans and their descendants marked a tragic period of the shared history of the Americas. Slavery and its aftermath remain a significant topic of discussion for the understanding of current race relations, economics, and politics throughout the hemisphere. Informed by historical, anthropological, and cultural studies readings, this course will look at selected films and novels from different

American countries to discuss the varied ways in which history is portrayed in them, as well as to identify how they inform us about the past and present.

**Who would most benefit from this seminar:** Students interested in film and literary studies, particularly the ones interested in the enslavement of Africans and their descendants in the Americas, or more broadly interested in the shared history of the American nations. Seminar would also benefit students who would like to learn about race relations, and to be exposed to an interdisciplinary approach to hemispheric American and transnational studies.

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### **Freedom & the Anthropology of Human Rights**

**Class # 22808**

**Instructor: Dean, Bartholomew** M, 01:00 - 01:50 PM (15 class sessions)

**Seminar Description:** The Honors Seminar combines theoretical and anthropological approaches to the analysis of freedom in the context of contemporary human rights violations in the Americas. Combining ethnographic methods with analyses of contemporary cases, the Honors Seminar will focus specifically on rights of mobility and migration. Students will have an opportunity to work directly on active human rights violations cases in an effort to advance peace, justice and reconciliation. Drawing from the study of human rights abuses associated with the current global immigration crisis, the course's aim is pragmatic, asking what's going on and what can be done about it. In some instances, the approach is simple and straightforward: perpetrators--including States--must be made to stop their rights violations and be held legally and morally accountable. Yet in the growing climate of impunity, human rights advocacy benefits from ethnographic analysis, sensitive negotiation, and compromise rather than rigid application of formal national and international laws and norms.

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### **Contract Bridge in a Changing Society**

**Class # 28318**

**Instructor: Donovan, Brian** M, 03:00 - 03:50 PM (15 class sessions)

**Seminar Description:** In *The Theory of Gambling and Statistical Logic*, Richard Epstein notes that "Contract Bridge is likely the most challenging game extant; it is certainly the most obsessive for its ranks of zealous followers" (1995, pg. 252). This seminar examines the card game contract bridge as a window onto different dimensions in history, society, and leisure. We will learn the fundamentals of bridge as it is played in clubs and tournaments across the world. Seminar participants will get hands-on experience playing contract bridge while they study the social location of the game: the historical rise and fall of bridge as a popular leisure activity in the US and abroad, the role of cultural capital and forms of social stratification imbedded in the game, and the intersections among rationality, emotion, and communication intrinsic to contract bridge. Student Evaluation: participation, weekly short quizzes, and a final research paper.

**Who would most benefit from this seminar:** Individuals who enjoy games (card games, tabletop games, and puzzles); learners who want to sharpen their critical thinking and deductive reasoning skills; people who enjoy friendly competition, teamwork, and collective problem-solving; students with an interest in the social history of leisure activities

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### **Introduction to Medical Product Innovation**

**Class # 28979**

**Instructor: Friis, Lisa** M, 05:00 - 05:50 PM (15 class sessions)

**Seminar Description:** In this seminar, we will explore the basic concepts a technology entrepreneur should follow to increase probability of success in designing and developing medical products. Guest speakers from the medical device industry will also be invited to talk about how they worked to make their ideas into real products that help patients.

**Who would most benefit from this seminar:** Students interested in making a difference in patients' lives through development of new technology would benefit from this seminar.

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**Mirror, mirror of society: Witchcraft through the ages****Class # 24779****Instructor: Gullickson, Sean**

W, 02:00 - 02:50 PM (15 class sessions)

**Seminar Description:** Witchcraft is everywhere today; in our favorite TV shows (Game of Thrones), movies (The Blair Witch Project), books (Harry Potter) and even Broadway musicals (Wicked). Nearly half a million Americans are practicing Wiccans, a faith inextricably tied to the term "witchcraft." But where did witchcraft come from, and how did we end up here? This interdisciplinary course will explore the origins and development of witchcraft in the West from ancient civilizations to the 21st century. We will examine the social and cultural power structures at play, the complex nature of historical witch hunts and institutions like the Spanish Inquisition, the intersection of magic and science during the Enlightenment, and the transformation of the witch from a feared figure to a romanticized stereotype to a symbol of feminism. We will seek to understand not only witchcraft, but ultimately what it can reveal about ourselves and the cultures in which we live.

**Who would most benefit from this seminar:** All Honors students welcome! Students of all majors and academic interests will benefit from the opportunity to make productive connections between a variety of academic approaches in their investigation of a single recurring historical phenomenon.

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**Under the Scope: Investigations in the Cellular and Molecular Aspects of Disease** **Class # 28980****Instructor: Hefty, P. Scott; Hancock, Lynn**

F, 02:30 - 03:45 PM (10 class sessions)

**Seminar Description:** This Freshman Honors seminar centers on learning about ongoing research being conducted by KU scientists studying the cellular and molecular aspects of various diseases ranging from bacterial and viral infectious diseases to Alzheimer's and cancer. Students will learn the art of conducting basic and applied scientific research. From developing hypothesis driven research to conducting research and analyzing data, as well as learning to communicate research findings to a broader audience, students will learn first-hand how research is conducted. Participating students will also hear from graduate students as they present their ongoing research projects. By being involved in this course, the students will become better engaged as to the types of research projects being conducted at KU and develop the skills to guide them in getting involved in their own undergraduate research experience.

**Who would most benefit from this seminar:** Students interested in becoming involved in undergraduate research. In particular, students interested in the disciplines of biochemistry and microbiology will be well served as the research topics discussed center on these two areas of investigation, but students interested in other aspects of biology or chemistry will find topics and research approaches relevant.

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**Water, Energy, Agriculture, Environment and Public Policy-Opportunities and Tradeoffs****Instructor: Hill, Mary**

Th, 11:00 - 11:50 AM (15 class sessions)

**Class # 20498**

**Seminar Description:** This interdisciplinary Freshman Honors seminar aims to strengthen the student's knowledge base about the relationship between water supply and demand, global energy systems, agricultural productivity, impact on the environment, and public policy. This course provides a basic introduction to how water, energy, food, and environmental policy is motivated, designed and implemented in the U.S, including identification of the major players. The course builds student research initiative through homework assignments and class discussion, and builds collaborative ability through a two-day policy seminar. Specific topics covered are largely driven by student input. Guest lecturers that range from a soil scientist to a lawyer provide the opportunity to ask questions on a range of topics.

**Who would most benefit from this seminar:** Any student who has ever wondered where the water from the tap, electricity activated by the wall switch, and the food at the grocery store comes from, and how our society and political system resolves issues of scarcity and equity.

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**Kendrick Lamar: Listening to the Making of a Social Activist****Class # 23967****Instructor: Hodges Persley, Nicole**

Tu, 11:00 - 12:15 PM (10 class sessions)

**Seminar Description:** This course explores the work of Hiphop artist Kendrick Lamar as music, theater and political commentary. Students will learn how to conduct research in their disciplines of study and how they can connect them to interdisciplinary discourses of social change.

**Who would most benefit from this seminar:** Student who want to engage in research in their first semester at KU and who are interested in interdisciplinary work.

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**The Science of Happiness****Class # 29671****Instructor: Ilardi, Stephen**

M, 05:00 – 05:50 PM (15 class sessions)

**Seminar Description:** Poets, philosophers, and sages have pondered the true nature of happiness since the dawn of antiquity. But happiness has now become a focus of legitimate scholarly inquiry, as psychologists, neuroscientists, and other behavioral scientists have begun to explore the topic scientifically. In this seminar, we will: (1) explore the emerging science of happiness; (2) look at the evidence regarding what truly makes people happy; (3) think critically about some competing definitions of happiness (Is it just a function of experienced pleasure? The absence of suffering? What about the pursuit of meaningful and satisfying goals, even if they involve suffering?); (4) experiment with specific strategies to induce greater personal happiness (and record the results of such experimentation in a 'happiness journal').

**Who would most benefit from this seminar:** Anyone who would like to better understand human nature, live a happier life, and help others to achieve the same.

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**The Chemist's War - Chemical Weapons in World War I and Beyond****Class # 20480****Instructor: Jackson, Timothy**

M, 03:00 - 03:50 PM (15 class sessions)

**Seminar Description:** Although chemical compounds have seen use as weapons for thousands of years, World War I (WWI) marked the first use of modern scientific principles to develop and employ chemical weapons, with devastating results. In this seminar, we will discuss the chemistry, and the chemists, that contributed to "The Chemist's War". Through discussions and assigned readings, this course will examine the development and use of chemical weapons in WWI. The course will also emphasize the role of chemical weapons in current conflicts. The course will also draw from the biochemical literature to explore the physiological basis for chemical weapon's mode of action. Also discussed will be current efforts aimed at using developing new science and technology to deal with stockpiles of chemical weapons.

**Who would most benefit from this seminar:** This seminar would be most appropriate for students from STEM fields (particularly chemistry, chemical engineering, and biochemistry). Students interested in the history of the 20th century would also benefit from this course.

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**The Dust Bowl as a Personal Experience****Class # 20478****Instructor: Johnson, Mark**

W, 08:00 - 09:15 AM (10 class sessions)

**Seminar Description:** The Dust Bowl of the 1930's was a seminal experience for America and Kansas, and one of the first examples of a man-made environmental disaster. Much of the history of the Dust Bowl was written or related by the people who lived through it. In this seminar we will study fiction and non-fiction accounts of the Dust Bowl.

**Who would most benefit from this seminar:** Students who are interested in how humanity can affect the environment, how people react to environmental change, and who want to learn how to use primary and secondary sources in learning about history. Plus, students who are just interested in a good story about Kansas.

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**Can understanding Germany's past help us understand China's future? Class # 22935**

**Instructor: Karney, Dennis; Moos, Felix** Th, 04:00 - 05:15 PM (10 class sessions)

**Seminar Description:** Rarely does a country undergo as rapid a period of industrial and political change as Germany has in the 1920s-30s and China since the mid-1980s. During these times their respective economies experienced explosive growth, including their militaries, as well as fundamental shifts in the way the country was/is governed. In China's case, they have grown into the world's second largest economy and are well on their way to being a major global power. With the recent constitutional change in China to abolish term limits for their president, Xi Jinping essential can rule China for as long as he desires. The natural next questions one can ask is: What will this mean for China? What will this mean for the rest of the world? What might we expect? What insights can we glean from history? And so on. While it would be very natural to initially address these questions by studying China's history, in this seminar we will first focus on better understanding Germany between the world wars. Then we will overview China's transformation since the opening of its economy and see what lessons can be learned from comparing these two countries and times. The instructors will draw on their combined decades of professional and personal experience in these areas of the world, coupled with current writings to critically exploring the above.

**Who would most benefit from this seminar:** Students who seek to learn and appreciate what history tells us, what culture explains for us and what personal experience has to offer us.

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**Life in China: Beyond the Headlines**

**Class # 22856**

**Instructor: Kennedy, John** M, 10:00 - 10:50 AM (15 class sessions)

**Seminar Description:** China, as a nation, has gone through rapid social and economic changes over the last 30 years. Although the news headlines in North America discuss China and the global economy, China's national politics and China trade, little attention is paid to the daily life of average Chinese citizens especially young people. In this class, we examine everyday life in China including K-12 education and college, entertainment and social media, dating, love and marriage, career choices, housing, health care and family relations. The goal is to see identify the similarities and differences between growing up in China and the United States as well as a greater understanding of the people and society behind the headlines.

**Who would most benefit from this seminar:** Students who are interested in international and global studies, comparative politics as well as journalism and communications studies will benefit from this course.

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**Adaptive Control, Automation, and Artificial Control**

**Class # 28981**

**Instructor: Keshmiri, Shawn** M, 02:30 - 03:20 PM (15 class sessions)

**Seminar Description:** Automatic systems are not new and have been studied for centuries. However, recent advances in computer and computation technologies have set the stage for a new generation of controllers that are capable of computation-intensive analysis. Parallel computing platforms and graphical processing units (GPUs) speed up accuracy and adaptability of new controllers. Now, researchers all around the world aim to push the boundary and make machines intelligent with a goal to achieve human-like performance. This seminar will cover different aspects of Adaptive Control, Autonomy, and Intelligent in 21st century.

**Who would most benefit from this seminar:** Students interested in the Flight Control, Artificial Intelligent, and Machine Learning.

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**So You Want to be a Writer, Huh?**

**Class # 20441**

**Instructor: Klayder, Mary** W, 04:30 - 05:20 PM (15 class sessions)

**Seminar Description:** So You Want to be a Writer, Huh? will be celebrating its 20th anniversary next fall. The seminar introduces students to three creative writing genres - fiction, poetry, and nonfiction - as well as to the creative writing community at KU and in Lawrence. Students will read and write in all three genres, engage in

workshops, and complete a full portfolio by the end of the semester. The course will end with a celebratory reading involving current students and alums from the past twenty years.

**Who would most benefit from this seminar:** Anyone who has an interest in reading or writing. The students do not need to be English majors but they should want to explore different forms of creative writing.

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**When Dick and Jane Compete in the Same Sport, Why is Jane More Likely to Rupture Her Ligament?** **Class # 28982**

**Instructor: Maletsky, Lorin** Th, 08:00 - 08:50 AM (15 class sessions)

**Seminar Description:** As a percentage of participating athletes in organized sports, teenage women are much more likely to suffer a ruptured anterior cruciate ligament in their knee – on the order of four times more likely. Researchers and clinicians don't understand why this occurs. Additionally, what should schools and coaches do knowing that women are more likely to rupture their ligament? We will discuss some of the hypotheses proposed to explain this occurrence and research completed to test these hypotheses. Topics to be investigated include anatomy, physiology, biology, mechanics, sports training, engineering, and anything else we need to help us understand the problem as well as the possible solutions. Over the course of the semester students will develop research projects to test different hypotheses that they develop.

**Who would most benefit from this seminar:** Students interested in biomedical research and sports injury.

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**Behavioral Economics for Better Decision-Making** **Class # 28466**

**Instructor: Medina, Mario** W, 04:00 - 04:50 PM (15 class sessions)

**Seminar Description:** Decisions impact our lives, well-being, happiness, and success either positively or negatively. Every day that goes by we make decisions for matters that are either meaningful, insignificant, or for everything in between. Some are made based on natural instincts while others require more elaborate thought processes. Behavioral economics is an academic approach used to understand how people make decisions. It offers evidence-based, adaptable tools to help us make the choices that can lead us to healthier, happier, and successful lives. Within the context of behavioral economics, in this course we will have fun discussing important topics such as expectations, biases, habits, motivation, procrastination, self-control, fear of loss, social herding, and others.

**Who would most benefit from this seminar:** College students who want to know more about themselves, who are interested in learning why they behave the way they do, and want to use this information to make better decisions would benefit most from this seminar. Note: This is not a seminar about psychology, economics, business, or marketing.

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**From diapers to toys to college: What does it mean to be a child and who is responsible for their well-being?** **Class # 28983**

**Instructor: Mendenhall, Amy** Tu, 01:00 - 02:15 PM (10 class sessions)

**Seminar Description:** According to an African proverb, "It takes a village to raise a child". However, what the "village" looks like and what it really means to be a "child" changes based on historical and cultural contexts. Regardless of these differences though, children and adolescents are the future, making it imperative to understand and support their experiences. This seminar will focus on childhood with exploration of the ever changing picture of childhood across history and culture, examination of child well-being in 2018, and review of the roles that families and professionals play in fostering child and adolescent growth and success.

**Who would most benefit from this seminar:** Students who are interested in working with children and adolescents in any capacity including in child well-being settings (foster care, adoption, child welfare), educational settings (schools, early childhood), and health and mental health settings.

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**Transportation & Society****Class # 24921****Instructor: Mulinazzi, Thomas** Th, 04:00 - 04:50 PM (15 class sessions)

**Seminar Description:** Analysis of the several modes of transportation and their impact on Society. Some of the topics discussed are Railroads in the U.S., Supersonic Travel, Airport Design, the Interstate System, Bicycles, Transportation in China, Railroads in Europe, the Price of Gasoline, and Water Transportation in the U.S.

**Who would most benefit from this seminar:** Anyone who is interested in traveling by modes of transportation

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**Experiencing and Exploring Art on the KU Campus****Class # 28959****Instructor: Reece Hardy, Saralyn; Nanney, Brittany** Tu, 03:00 - 04:15 PM (10 class sessions)

**Seminar Description:** This course will introduce students to public art on the University of Kansas's campuses. Students will actively engage in KU's Lawrence campus landscape, visit outdoor sculptures and explore works of art visible to students, faculty and the public. Themes that will be explored in class include perceptions of public space and individual and communal interaction; campus conversations around current social topics, policies, the art and artists who shape public space; and the significant role of art on campus.

**Who would most benefit from this seminar:** All are welcome. The course will serve students interested in History of Art, Visual Art, Architecture, Dance, Engineering, Public Administration, and Museum Studies.

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**Global Medicine****Class # 20466****Instructor: Rhine, Kathryn** Tu, 10:00 - 10:50 AM (15 class sessions)

**Seminar Description:** The concept of global health refers to the ways transnational flows of people, ideas, technologies, and capital influence the emergence and spread of diseases across space and time. In this seminar, we will question how these transnational entanglements, social and economic inequalities, and (mis)understandings of "culture" shape the delivery of medical care and the experiences of suffering in diverse global contexts.

**Who would most benefit from this seminar:** This course would benefit students across a range of majors, including anthropology, global and international studies, and students in pre-health career tracks.

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**Culture Out of Bounds: Creative Production Outside of the Frame****Class # 29463****Instructor: Rosenthal, Ben** W, 12:00 - 01:15 PM (10 class sessions)

**Seminar Description:** This seminar looks at a myriad of ways in which artists and other cultural producers are working outside or in conflict with larger "institutions" as a way to reframe how contemporary art functions in society. The course will involve both reading and discussion and may involve some field-trips. Some topics that will be explored will be the history and theory of museums/cultural spaces, building community, utopian communities/communes, activism, and artwork as a form of knowledge production.

**Who would most benefit from this seminar:** This seminar would be great for anybody interested in how cultural producers function, and how culture influences our larger understanding of who we are as people/society. Anyone who is curious about the world and wants to explore what its structures means as a class community would be welcome and wanted regardless of major or department affiliation.

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**The Politics of Memory****Class # 23934****Instructor: Tell, Dave** W, 01:30 - 02:45 PM (10 class sessions)

**Seminar Description:** This course explains the age-old question of power and memory: who gets to say what the past meant? It suggests that public memorials are not about what happened in the past; they are about the people who hold power in the present. Why else would the American landscape—not to mention the KU campus—be dotted with memorials and monuments around every corner? If we are indeed living in a society

afflicted by a “memorial mania”—as Erika Doss suggests—this mania is driven by a widely felt conviction that the past offers an unmatched source of political and cultural power. This seminar is a historical investigation into why people have fought so dearly for monuments to the past.

**Who would most benefit from this seminar:** Anyone.

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**Computational Mathematics and Climate Dynamics**

**Class # 20464**

**Instructor: Van Vleck, Erik**

W, 01:00 - 01:50 PM (15 class sessions)

**Seminar Description:** The focus of this seminar is on advances in computational mathematics and their application to understanding climate dynamics. The seminar will provide an introduction to the computational mathematics package matlab, high performance computing, and tools for numerical detection of bifurcation phenomena in which there is a major change in the state of the system. We will also introduce simple models of ocean and atmospheric dynamics and then focus on how computational mathematics tools can assist in the understanding of these models. Students in this seminar will receive an introduction to web publishing software and will use this as a medium to produce their final projects.

**Who would most benefit from this seminar:** Students with interests in Mathematics, Atmospheric Science, Science, Engineering, Business or Economics.

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**Transferable Skills: Leveraging Past Experience for Future Value**

**Class # 22858**

**Instructor: Villafuerte, Lynn**

M, 04:00 - 04:50 PM (15 class sessions)

**Seminar Description:** This seminar course is designed for students in STEM fields with emphasis on engineering students. The course will explore how to strategically include programs, platforms and other mechanisms that allow for learning and assimilating “transferable skills”. Using an Individualized Development Plan (IDP), each student determines skill sets needed for successful transition into a research or engineering career. This class creates the foundation to structure and shape student undergraduate education experience to significantly use or leverage these transferable skills.

**Who would most benefit from this seminar:** STEM students especially Engineering students

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**The Greenland Kayak**

**Class # 22852**

**Instructor: Young, C. Bryan**

Th, 03:30 - 05:15 PM (Irregular)

**Seminar Description:** The Greenland kayak is widely regarded as a perfect marriage of form and function. Designed and constructed using available materials (wood, seal skin, and bone), these watercraft were an important part of the Inuit culture and a vital platform for hunting. Students in this seminar will study the Inuit history and culture through the KU ethnographic collections, focusing on the full-size kayak collected by Lewis Lindsay Dyche in 1895. We will analyze the construction and will build a fully functional replica using modern skin-on-frame techniques.

**Who would most benefit from this seminar:** This seminar will work in the intersection of history, culture, materials science and engineering design. Students interested in anthropology, sustainability, 3D art, and engineering will all enjoy the experience of working hands-on in an interdisciplinary team to study and recreate a kayak that is over 100 years old.

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