# Course Opportunities: Week of April 27, 2020

## Table of Contents

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Session A: AAS - Flies in the Buttermilk: Food, Hunger, and Power in the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>Summer Session A: COGSCI - Introduction to Cognitive Science</td>
<td>4</td>
</tr>
<tr>
<td>Summer Session A: COGSCI - Brain Damage</td>
<td>4</td>
</tr>
<tr>
<td>Summer Session A: COGSCI - The Cognitive Psychology of Concept and Idea Formation</td>
<td>5</td>
</tr>
<tr>
<td>Summer Session A: EPS - Earthquakes in Your Backyard</td>
<td>5</td>
</tr>
<tr>
<td>Summer Session A: EPS - Environmental Earth Sciences</td>
<td>7</td>
</tr>
<tr>
<td>Summer Session A: EPS - Introduction to Oceans</td>
<td>8</td>
</tr>
<tr>
<td>Summer Session A: Public Health - Nutrition in Developing Countries</td>
<td>9</td>
</tr>
<tr>
<td>Summer Session A: Public Health – Introduction to Health Policy and Management</td>
<td>10</td>
</tr>
<tr>
<td>Summer Session C: AAS – Race, Class and Gender</td>
<td>11</td>
</tr>
<tr>
<td>Summer Session C: COGSCI - Computational Models of Cognition</td>
<td>12</td>
</tr>
<tr>
<td>Summer Session C: Com Lit – Sounding American</td>
<td>13</td>
</tr>
<tr>
<td>Summer Session C: Com Lit – Boroughs and Barrios</td>
<td>14</td>
</tr>
<tr>
<td>Summer Session C: Slavic - Intro to Russian/East European/Eurasian Cultures</td>
<td>15</td>
</tr>
<tr>
<td>Summer Session C: EPS – The Water Planet</td>
<td>16</td>
</tr>
<tr>
<td>Summer Session C: EPS – Earth and Planetary Science W12</td>
<td>17</td>
</tr>
<tr>
<td>Summer Session D: AAS - The History of The Modern Civil Rights Movement</td>
<td>18</td>
</tr>
<tr>
<td>Summer Session D: AAS - From Be-Bop to Hip Hop</td>
<td>19</td>
</tr>
<tr>
<td>Summer Session D: AAS - Reading and Writing A Black Feminist Creative Practice of Care</td>
<td>20</td>
</tr>
<tr>
<td>Summer Session D: COGSCI - Mind, Brain, and Identity</td>
<td>21</td>
</tr>
<tr>
<td>Summer Session D: COGSCI - The Cognitive Unconscious</td>
<td>21</td>
</tr>
<tr>
<td>Summer Session D: EPS – Earth’s Greatest Volcanic Eruptions</td>
<td>22</td>
</tr>
<tr>
<td>Summer Session D: Psych – Introduction to How the Brain Works</td>
<td>23</td>
</tr>
<tr>
<td>Summer Session D: Psych – Emotional Intelligence</td>
<td>24</td>
</tr>
<tr>
<td>Summer Session D: Psych – Stress and Coping</td>
<td>25</td>
</tr>
</tbody>
</table>
Course Opportunities: Week of April 27, 2020

Summer Session D: Psych – Human Sexuality 26
Summer Session D: Psych – Case Studies in Clinical Psych 27
Summer Session D: Psych – Cultural Psych 28
Summer Session D: Psych – Industrial-Organizational Psychology 29
Summer Session D: Psych – Mind-Body and Health 30
Summer Session D: Psych – Global Mental Health 30
Summer English Language Studies: Sessions B, D & E 31
Summer 2020: Remote DES INV courses 33
Global Public Health Minor Summer 2020 Courses 34
Berkeley Geography: Summer 2020 Sessions A & D 35
Fall 2020 Big Ideas and Discovery Course websites are now live! 35
Fall 2020 Classics Lower Division L&S Breadth Courses 36
Fall 2020: ENRES 131 - Data, Environment and Society 36
Fall 2020: NWMEDIA 151AC 41
Summer 2020: BASE Business Program at Haas 42
Summer Session A: AAS - Flies in the Buttermilk: Food, Hunger, and Power in the African Diaspora

FLIES IN THE BUTTERMILK: FOOD, HUNGER, AND POWER IN THE AFRICAN DIASPORA

AAS 159.1
TWTh 1:30-4PM | Class #15085 | Session A
Instructor: Gabrielle Williams

"Flies in the Buttermilk" draws from interdisciplinary approaches in African & African American Studies, Food Studies, Gender & Sexuality Studies, and Literary Studies to examine powerful ways that peoples of the African Diaspora have disrupted Eurocentric classifications of food & foodways across broad expanses of space and time. Employing Humanities-driven approaches that consider not only material, but also symbolic meanings of food as critical to our examinations, the course takes-up (to soundly clarify) topics such as, for instance, European appropriation & exploitation of African agricultural practices in the Atlantic World; trans-national affects of anti-black classism, racism, and sexism on heteronormative definitions of "women's work" and "women's labor" in domestic spaces; the, decidedly, uncomfortable beginnings of Soul Food in relation to its fraught status as a cuisine of "comfort" food; and, finally, the complex nature of both physical and metaphysical forms of hunger unique to global populations of African Diaspora peoples still ravenous for liberty during varied occurrences of long freedom struggles.
Summer Session A: COGSCI - Introduction to Cognitive Science

COGSCI N1: Introduction to Cognitive Science - Class #: 13101
Prerequisite / Lower Division Course for CogSci
Meets Social & Behavioral Sciences, L&S Breadth
- 3 units
- Taught by Linda Isaac
- Summer Session A: May 26 - July 2
- TU, W, TH: 10:00 am - 12:29 pm

This course introduces the interdisciplinary field of cognitive science. Lectures and readings will survey research in such fields as artificial intelligence, psychology, linguistics, philosophy, and neuroscience, and will cover topics such as the nature of knowledge, thinking, remembering, vision, imagery, language, and consciousness. Sections will demonstrate some of the major methodologies. This course is a core prerequisite for the Cognitive Science major and therefore must be taken for a letter grade.

Summer Session A: COGSCI - Brain Damage

COGSCI 170: Brain Damage - Class #: 15239
Fulfills the Cognitive Neuroscience distribution or can count as an elective
- 3 units
- Taught by Linda Isaac
- Summer Session A: May 26 - July 2
- TU, W, TH: 1:30 pm - 3:59 pm

This course introduces students to the full range of brain damage causes, which are: traumatic brain injury (TBI) - civilian vs. military, chronic traumatic encephalopathy (CTE), stroke, tumors, infections, hypoxia, addiction, neurological, and congenital conditions. We understand how brain damage caused by each condition leads to localized and non-localized deficits in the key functions comprising cognition, emotion, physiology, social skills, behavior, and daily functioning capacity. Key co-occurring disorders are covered that present due to the fundamental brain damage causes.
Summer Session A: COGSCI - The Cognitive Psychology of Concept and Idea Formation

COGSCI 182: The Cognitive Psychology of Concept and Idea Formation - Class #: 15309
Fulfills the Cognitive Psychology distribution or can count as an elective

- 3 units
- Instructor TBA
- Summer Session A: May 26 - July 2
- M, TU, W, TH: 4:30 pm - 6:29 pm

This class will explore cognitive psychology and some neurological processing related to cognition and the formation and use of “ideas” or “concepts.” We will discuss the modeling of idea and concept formation, the structures of memory, reasoning and problem solving, and meta-cognition, among others.

Summer Session A: EPS - Earthquakes in Your Backyard
Course Description:
Introduction to earthquakes, their causes and effects. General discussion of basic principles and methods of seismology and geological tectonics, distribution of earthquakes in space and time, effects of earthquakes, and earthquake hazard and risk, with particular emphasis on the situation in California.

Summer Session A - Six-Week Session: May 26 - July 2
T Th 12:00PM - 2:30PM | Course #12122 | 3 units

or

Summer Session D - Six-Week Session: July 6 - August 14
M W 4:30PM - 7:00PM | Course #12123 | 3 units

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Summer Session A: EPS - Environmental Earth Sciences

Course Description: This course focuses on the processes on and in the earth that shape the environment. Humanity’s use of land and oceans is examined based on an understanding of these processes.

Summer Session A - Six-Week Session: May 26 - July 2
M W 1:00PM - 4:30PM | Course #12934 | 3 units
or
Summer Session D - Six-Week Session: July 6 - August 14
M W 1:00PM - 4:29PM | Course #12124 | 3 units

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Summer Session A: EPS - Introduction to Oceans

Course Description: The geology, physics, chemistry, and biology of the world oceans. The application of oceanographic sciences to human problems will be explored through special topics such as energy from the sea, marine pollution, food from the sea, and climate change.

Summer Session A - Six-Week Session: May 26 - July 2
T Th 1:00PM - 4:00PM | Course #12125 | 3 units

or
Summer Session D - Six-Week Session: July 6 - August 14
T Th 1:00PM - 4:00PM | Course #12711 | 3 units

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Summer Session A: Public Health - Nutrition in Developing Countries

PH 118: NUTRITION IN DEVELOPING COUNTRIES

We will focus on low- and middle-income countries because they experience the greatest burden of malnutrition, and because they face a unique context of limited financial and government resources. In this course, we will discuss the effects of nutrition throughout the lifecycle in pregnancy, infancy, childhood, and adulthood. We will focus on nutrition broadly including issues of undernutrition, micronutrient deficiencies, and obesity. We will also analyze and evaluate actions taken to ameliorate the major nutritional problems facing vulnerable populations in low- and middle-income countries.

IT'S A PH MINOR AND MAJOR ELECTIVE!

Session A
May 28–July 5
3 Units
M/W 8am-12pm
Dwinelle 79
Summer Session A: Public Health – Introduction to Health Policy and Management

PH 150D
2020 Summer Session A
May 28 – July 2
M, Tu, W, Th
10am-12pm
Morgan 101
Class #14875
Units: 3

Health policy and management applies concepts from economics, organization behavior, and political science to the structure, financing, and regulation of the public health and health care delivery systems. Introduction to Health Policy and Management (PH150D) is a three-unit breadth course that is designed to give students an overview of the health care system in the U.S. Students will also learn about current issues in U.S. health policy, health care reform efforts and proposals, and comparisons to other countries’ health care systems, and contemporary organizational challenges experienced by the U.S. healthcare system.

***

Dr. Robin Flagg has over 25 years of experience in health policy development and advocacy. She has worked with numerous organizations including the California Association of Public Hospitals (CAPH), the Centers for Medicare and Medicaid Services (CMS) in the US Department of Health and Human Services, and Kaiser Permanente. Additionally, Dr. Flagg was the Director of Health Policy at the California Medical Association (CMA). Dr. Flagg’s research interests include state policymaking, health care politics, and senior health care services. Dr. Flagg serves on the Board of On Lock, Inc. (a PACE plan). Dr. Flagg received both her PhD in Health Services and Policy Analysis and her MPH in Health Policy and Administration from UC Berkeley. Her BA was in Art History from Williams College. Following her BA, she worked for 3 years with US Peace Corps in Nepal.
Summer Session C: AAS – Race, Class and Gender

A focus on patterns of globalization, migration, and race/ethnic relations with regard to African Americans, Mexican Americans, and Asian Americans in the 1890s and 1990s. Key aspects like economics, politics, gender, and culture are examined. This course is web-based.
Summer Session C: COGSCI - Computational Models of Cognition

COGSCI 131: Computational Models of Cognition - Class #: 13103

Fulfills the Computational Modeling distribution or can count as an elective

- 4 units
- Instructor TBA
- Summer Session C: June 22 - August 14
- M, TU, W: 3:30 pm - 5:29 pm

This course will provide advanced students in cognitive science and computer science with the skills to develop computational models of human cognition, giving insight into how people solve challenging computational problems, as well as how to bring computers closer to human performance. The course will explore three ways in which researchers have attempted to formalize cognition -- symbolic approaches, neural networks, and probability and statistics -- considering the strengths and weaknesses of each.
Summer Session C: Com Lit – Sounding American

Sounding American:
Literature, Music, Technology and Race
Comparative Literature 156AC

Course Description: What does it mean when we say someone or something "sounds American"? Can a person sound like a certain gender, social class, sexuality, or race? How would we possibly define that sound? And what might it mean to think of a culture by the ways it sounds and listens, instead of how it looks or seems? This course will explore these questions and others by studying podcasts, poems, songs, novels, and the changing forms of sonic technologies like microphones, radios, MP3s, turntables, and more.

ONLINE COURSE – FULFILLS AMERICAN CULTURES (AC) REQUIREMENT

Summer Session C - Eight-Week Session: June 22 - August 14
Online Course
Course #13038 | 4 units
summer.berkeley.edu

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Summer Session C: Com Lit – Boroughs and Barrios

Comparative Literature
Berkeley Summer Sessions 2020

Boroughs and Barrios
Moving in and through NYC & LA
Com Lit W60AC

Course Description: Who comes to the American city, and why? How do visitors, residents, and migrants negotiate and move through “The Big Apple” and “The City of Angels,” reimagining urban life in the process? In this online course, we will trace the crises of immobility that mark the histories of New York City and Los Angeles by exploring their representations in writing, music, maps, photography, and film.

Session C: 06/22/20 - 8/14/20
Fulfills the AC Requirement
Online course that can be taken from anywhere in the world!

Instructor: Karina Palau

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Summer Session C: Slavic - Intro to Russian/East European/Eurasian Cultures

Do you know the "terrible" story behind this iconic cathedral?

Satisfies L&S Arts&Lit; Int'l Studies; Soc. & Behavioral Sciences Requirements!

Course Taught on Zoom

Slavic 50: Intro to Russian/East European/Eurasian Cultures
Summer Session C
Class # 12606
Summer Session C: EPS – The Water Planet

Course Description: An overview of the processes that control water supply to natural ecosystems and human civilization. Hydrologic cycle, floods, droughts, groundwater. Patterns of water use, threats to water quality, effects of global climate change on future water supplies. Water issues facing California.

Summer Session C - Eight-Week Session: June 22 - August 14
M W F 2:00PM - 3:59PM
Course #12549 | 3 units

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Summer Session C: EPS – Earth and Planetary Science W12

THE PLANETS
Earth and Planetary Science W12

Course Description: A tour of the mysteries and inner workings of our solar system. What are planets made of? Why do they orbit the sun the way they do? How do planets form, and what are they made of? Why do some bizarre moons have oceans, volcanoes, and ice floes? What makes the Earth hospitable for life? Is the Earth a common type of planet or some cosmic quirk? This course will introduce basic physics, chemistry, and math to understand planets, moons, rings, comets, asteroids, atmospheres, and oceans. Understanding other worlds will help us save our own planet and help us understand our place in the universe. This course is web-based.

Summer Session C - Eight-Week Session: June 22 - August 14
Online Class | Course #12121 | 3 units

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Summer Session D: AAS - The History of The Modern Civil Rights Movement

AAS 125AC
Online Course | Class #12736 | Session D
Instructor: Ula Taylor

The objective of this course is to examine the modern Civil Rights Movement. As traditionally understood, this period began with the May 17, 1954, “Brown vs. Board of Education” Supreme Court decision and ended with the passage of the Voting Rights Act of 1965. This course will expand this time frame and seek to place this movement in the context of global developments and the broad sweep of United States History. Assigned readings consist of historical and autobiographical texts. Lectures will contextualize the readings by placing the material and its significance within the overall history and culture of Americans. Visual media will augment the lectures.
Summer Session D: AAS - From Be-Bop to Hip Hop

FROM BE-BOP TO HIP HOP

AAS 159.3
MTWTh 10-12PM | Class #15051 | Session D
Instructor: Ricky Vincent

This course is an interdisciplinary analysis of the aesthetics and politics of black popular music since WWII with an emphasis on the "Black Awakening" of the 1960s. The many great changes in black music, from Swing to Bop to Rhythm and Blues, through Soul, Rock, Funk, Reggae, Disco and Hip Hop are analyzed in terms of their expressions of African America beliefs and values, both traditional and contemporary. Students will come to understand the many aesthetic links between popular music, politics and culture, and the relationship to national identity and the struggle for freedom and self-determination.
Reading and Writing a Black Feminist Creative Practice of Care

Reading and Writing a Black Feminist Creative Practice of Care engages theories and methods of radically creative Black feminism by centering scholars like Alice Walker, Audre Lorde, June Jordan, Tonja Cade Bambara, Toni Morrison, Lucille Clifton, and Sonia Sanchez. The course is designed to explore the ways in which Black women writers and thinkers have conceptualize creativity and care, with a particular focus on interiority, intimacy, spirituality, and sisterhood. We will read canonical texts and lesser known texts that deal with the complexities of Black life for Black women in a variety of time periods, in a variety of places. We will also explore contemporary works by Black women who are in conversation with these canonical works and think about what new discourses around these topics have emerged. I will expose students to theories of intersectionality through creative writing, and explore new ways of leaning into the creative works of Black women as theory and method. Students will engage their own process of writing poetry and prose about the influences of race, class, gender and sexuality by making connections between the texts and their lived realities. There will be three major assignments that will be graded based on how well students can conceptualize course themes for themselves and incorporate their knowledge into projects that align with their own interests rooted in course material.
Course Opportunities: Week of April 27, 2020

Summer Session D: COGSCI - Mind, Brain, and Identity

COGSCI 180: Mind, Brain, and Identity - Class #: 15308  
*Fulfills the Philosophy distribution or can count as an elective*  
*Meets Philosophy & Values, L&S Breadth*
- 3 units
- Instructor TBA
- Summer Session D: July 6 - August 14
- M, TU, W, TH: 12:00 pm - 1:59 pm

Do you have a self or are you one? How is the self related to brain structure and function? Is the self, for example, identical to some part of the brain or part of the brain’s function? Can you damage the self by damaging the brain? In this course we will look at these questions from conceptual, psychological, and neuroscientific perspectives. We will study both normal and injured brains to help shed light on what is a deeply philosophical and personal issue: What is the human self. We will read various papers pertaining to these issues as well as the books listed under required reading.

Summer Session D: COGSCI - The Cognitive Unconscious

COGSCI 181: The Cognitive Unconscious - Class #: 15310  
*Fulfills the Philosophy or Society, Culture, and Cognition distribution, or can count as an elective*  
*Meets Philosophy & Values, L&S Breadth*
- 3 units
- Instructor TBA
- Summer Session D: July 6 - August 14
- M, TU, W, TH: 4:00 pm - 5:59 pm

This class is on the cognitive unconsciousness. This is the unconscious mind from a cognitive science point of view rather than one from psychoanalysis (though we will briefly touch on the psychoanalytic notions of the unconscious to clarify the distinction). The basic guide will be asking whether there is explanatory value to explaining human behavior with mental states or events that are not conscious to the person who has them. We say, for example, that a person flinched because they felt pain. Pain is a mental state that can explain the behavior (the flinch) of the person. Are there good reasons to think that some behaviors are explained by unconscious mental states?
Summer Session D: EPS – Earth’s Greatest Volcanic Eruptions

Course Description: A science-based course on the most significant eruptions Earth has produced. Most eruptions discussed will be from within historic time and will involve information from geology (volcanology), geography, archaeology, history, art, and paleoenvironmental records such as tree-rings and ice-cores. After a two-class introduction to volcanoes, volcanic activity, and volcanology, and the hazards vs benefits of eruptions, each class will feature one of more eruptions of different types from around the world. A science-based interpretation of the eruptions and effects on human-kind and the environment, will be presented. Class participants will learn about one type of natural hazard, its causes, and the variability of volcanism on Earth.

Summer Session D - Six-Week Session: July 6 - August 14
M W F 10:00AM - 12:59PM
Course #14978 | 3 units

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Summer Session D: Psych – Introduction to How the Brain Works

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Summer Session D: Psych – Emotional Intelligence

All Psych summer courses will now be online. Visit the academic guide for our course offerings!

Psychology 4
Emotional Intelligence

Class Number 12746

TU, TH 1:00 - 3:29 pm
Hearst Mining 390
Prof. Davina Chan

This course will examine research on emotional intelligence and techniques for developing emotional intelligence. We will discuss various components of emotional intelligence, including the ability to identify and manage one's emotions, successfully motivate oneself to achieve one's goals, read other people's emotions accurately, and use emotions to navigate social relationships effectively. Material will be taken from social psychology, clinical psychology, and cognitive neuroscience.
Summer Session D: Psych – Stress and Coping

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Summer Session D: Psych – Human Sexuality

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Summer Session D: Psych – Case Studies in Clinical Psych

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Summer Session D: Psych – Cultural Psych

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Summer Session D: Psych – Industrial-Organizational Psychology

All Psych summer courses will now be online. Visit the [academic guide](#) for our course offerings!
Summer Session D: Psych – Mind-Body and Health

All Psych summer courses will now be online. Visit the academic guide for our course offerings!

Summer Session D: Psych – Global Mental Health

All Psych summer courses will now be online. Visit the academic guide for our course offerings!
Course Opportunities: Week of April 27, 2020

**Summer English Language Studies: Sessions B, D & E**

2020 Summer English Language Courses for Multilingual Students
Refine your academic English!
Earn UC Berkeley credit!
Enroll on CalCentral. For more information, go to http://summerenglish.berkeley.edu

ColWrit Online Courses
2 units, P/NP, July 6 - Aug 14
Taught entirely over the internet.
● W3A: Academic Writing
● W3B: Business English: Oral Communication
● W3D: Introduction to the U.S. Legal System
● W3E: Legal English: Listening and Speaking
● W3G: Grammar and Vocabulary
● W3I: Introduction to Technical Writing
● W200: Writing for Academic Publication*
  ○ * meets Session B: June 8 - Aug 14

ColWrit 5 and 9
3 units, graded or P/NP, July 6 to Aug 14
Friday/weekend fieldwork projects
● 5C: Film
● 5D: Literature
● 53: Popular Music
● 5F: International Human Rights
● 5K: Media
● 5N: Designing Public Spaces
● 5P: Makerspace Creativity: Craft and Technology
● 9A: Academic Research
● 9C: Academic Writing
● 9E: Business English
● 9I: Conflict Resolution
● 9J: Academic Language and Writing Style
● 9N: Legal English and U.S. Law
● 9O: Legal Writing
● 9R: Academic and Public Speaking
● 9S: Pronunciation
● 9V: Science and Engineering
● 9Y: Creative Writing

ColWrit 6
2 units, P/NP, July 27 - Aug 14

- 6A: Academic Speaking
- 6B: Academic Vocabulary
- 6C: Business Vocabulary
- 6E: Grammar and Editing
- 6G: Writing for Digital Media
- 6H: Writing Creative Non-Fiction
- 6I: English through Conflict Resolution
- 6J: Academic Test Preparation
- 6K: Academic Reading and Writing
- 6L: Job Searching and Networking
- 6M: Graduate School Admissions & Expectations
- 6N: Art & Design
- 6P: Pronunciation
- 6Q: Alternative Dispute Resolution
- 6R: Speaking through Performance

**Summer 2020: Remote DES INV courses**

All UC Berkeley summer courses will be taught remotely this summer. We are happy to confirm that we can offer all four of our scheduled DES INV courses remotely. Now you can learn about design in the comfort of your own home! The courses we are offering are below; learn more about them and get registration info [here](#).

- DES INV 190-10 Design, Cybersecurity & Mobility

If you're wondering what courses will be offered in Jacobs Hall in fall 2020, stay tuned for the [Jacobs course list](#) to be updated early next week. In the time being you can look up courses in the [Class Schedule](#).
Global Public Health Minor Summer 2020 Courses

UC Berkeley Summer 2020
Global Public Health Minor or Certificate Courses

We are currently in the midst of a global public health emergency. At least 152 countries have confirmed cases of COVID-19. It has never been more apparent than now that careers and expertise in global public health settings are crucial to the health and well-being of our communities.

The UC Berkeley undergraduate summer minor/certificate program in Global Public Health is alive and well and adapting to this changing global health environment. All summer minors/certificate courses for sessions A and D will be offered remotely. There may be opportunities for students to attend some classes on Campus in session D, but this is currently unknown. All courses will have synchronous (live/real-time instruction) during the scheduled time in the course catalog. There may also be asynchronous (offline instruction) components. The summer minor/certificate can be completed in one or two summers.

The Global Public Health minor is now offered to UC Berkeley Public Health majors. We are also excited to share that all global public health minor/certificate courses will incorporate COVID-19 or pandemic-related content.

Please visit our website, https://publichealth.berkeley.edu/academics/undergraduate/global-public-health/, or contact Program Advisors, Kimberly Henderson and Patricia Cruz, at sphug@berkeley.edu, for additional information.

There has never been a better time to get involved in global public health, so please join us!

<table>
<thead>
<tr>
<th>Summer Session A (May 26 - July 2)</th>
<th>Summer Session D (July 6 - August 14)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBHLTH N112 Global Health: A Multidisciplinary Examination</td>
<td>PBHLTH 115 Introduction to Global Health Equity</td>
</tr>
<tr>
<td>Lecture: T, W, TH 2pm-4pm</td>
<td>Lecture: T, TH 12pm-2pm</td>
</tr>
<tr>
<td>Discussion: T, W, TH 4pm-6pm</td>
<td>Discussion: F 12pm-4pm</td>
</tr>
<tr>
<td>PBHLTH 118 Nutrition in Developing Countries</td>
<td>PBHLTH 142 Introduction to Probability and Statistics in Biology &amp; Public Health</td>
</tr>
<tr>
<td>Lecture: M, W 9am-1pm</td>
<td>Lecture: M, T, W, TH, F 9:30am-11am</td>
</tr>
<tr>
<td>PBHLTH 150B Introduction to Environmental Health Science</td>
<td>Discussion: M, T, W 11am-12pm</td>
</tr>
<tr>
<td>Lecture: M, T, W, TH 12pm-2pm</td>
<td>Lecture: TH, F 11am-12pm</td>
</tr>
<tr>
<td>PBHLTH 150D Introduction to Health Policy &amp; Management</td>
<td>PBHLTH 155B Women’s Global Health &amp; Empowerment</td>
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<tr>
<td>Lecture: M, T, W, TH 10am-12pm</td>
<td>Lecture: M, W 11am-2pm</td>
</tr>
<tr>
<td>Discussion: F 10am-12pm</td>
<td>PBHLTH 162A Public Health Microbiology</td>
</tr>
<tr>
<td>PBHLTH 196 War &amp; Public Health</td>
<td>Lecture: M, T, W, TH 8am-10am</td>
</tr>
<tr>
<td>Lecture: T, TH 4pm-7pm</td>
<td>PBHLTH 250A Epidemiologic Methods</td>
</tr>
<tr>
<td>Monday (M), Tuesday (T), Wednesday (W), Thursday (TH), Friday (F)</td>
<td>Lecture: M, T, W, TH 2pm-5p</td>
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Please visit our website,
https://publichealth.berkeley.edu/academics/undergraduate/global-public-health/
Berkeley Geography: Summer 2020 Sessions A & D

Please visit the Berkeley Guide for more course information. All courses will be taught virtually.

**Session A (May 26th - July 2nd)**
- GEOG N20: Globalization
- GEOG N50AC: California
- GEOG N130: Food and the Environment

**Session D (July 6th - August 14th)**
- GEOG N4: World Peoples and Cultural Environments
- GEOG 31: Justice, Nature, and the Geographies of Identity
- GEOG 32: Global Geographies of Imperialism
- GEOG 70AC: The Urban Experience
- GEOG 107: Waste Matters: Exploring the Abject, Discarded and Disposable
- GEOG 108: Geographies of Energy: The Rise and Fall of the Fossil Fuel Economy
- GEOG 114: Thinking Globally, Acting Regionally: Geographies of Climate Change
- GEOG 138: Global Environmental Politics

For more information, contact Berkeley Geography: https://geography.berkeley.edu

Fall 2020 Big Ideas and Discovery Course websites are now live!
Course Opportunities: Week of April 27, 2020

Please visit L&S Big Ideas Courses and L&S Discovery Courses - Fall 2020 for more course information!

Fall 2020 Classics Lower Division L&S Breadth Courses

- **CLASSICS 10A (crse# 21383)** - Intro to Greek Civilization
  - Fulfills the L&S breadth requirements in Arts & Literature, Historical Studies or Philosophy & Values.
- **CLASSICS 17A (crse# 21372)** - Intro to the Archaeology of the Greek World
  - Fulfills the L&S breadth requirements in Arts & Literature or Historical Studies.
- **CLASSICS 36 (crse# 25818)** - Greek Philosophy
  - Fulfills the L&S breadth requirements in Historical Studies or Philosophy & Values
- **CLASSICS R44 (crse# 21374)** - Roots of Western Civilization
  - Fulfills the L & S breadth requirement in Arts & Literature, Historical Studies or Social & Behavioral Sciences.
  - Fulfills Reading and Composition Requirement either A or B

Fall 2020: ENRES 131 - Data, Environment and Society
Data, Environment and Society
Fall, 2020
Energy and Resources Group

ENERES 131
Professor Duncan Callaway (dcal@berkeley.edu)

This course will teach students to build, estimate and interpret models that describe phenomena in the broad area of energy and environmental decision-making. Students leave the course as both critical consumers and responsible producers of data-driven analysis.

The effort will be divided between (i) learning a suite of data-driven modeling and prediction tools (including linear model selection methods, classification and regression trees and support vector machines) (ii) building programming and computing expertise and (iii) developing capacity to formulate and answer resource allocation questions within energy and environment contexts.

We will work with Python, and students must have taken Data 8 before enrolling. The course is designed to complement and reinforce Berkeley’s data science curriculum, in particular Data 100.

The course can be used to satisfy the upper division domain emphasis for the Data Science major and minor, the engineering elective for Energy Engineering, and the upper division requirement for Energy and Resources Group minor.

Lecture (#27412) TT 9:30 – 11am

There will be two options for lab section, timing to be announced.

Required Prerequisites: Experience with statistics and computing in Python (CS C8/IS C8/ Stat C8 satisfies this) and college calculus. Direct questions to the instructor.

Recommended Preparation: An introductory computer programming course (Computer Science 61A or Computer Science 88) and Linear Algebra (Mathematics 54, EE16A, or Statistics 89A)

FOR MORE INFORMATION CONTACT: ENERGY AND RESOURCES GROUP
ergodesk@berkeley.edu  * 510-642-1640  * 310 Barrows Hall
ER 131: Data, Environment and Society

Instructor: Duncan Callaway, dcall@berkeley.edu
Fall, 2020
4.0 Units

Lecture time and location: Tu/Th 9:30-11:00am, Barrows 60
Lab time and location: TBD
Office hours: TBD

Course Description

This course will teach students to build, estimate and interpret models that describe phenomena in the broad area of energy and environmental decision-making. The effort will be divided between (i) learning a suite of data-driven modeling approaches, (ii) building the programming and computing tools to use those models and (iii) developing the expertise to formulate questions that are appropriate for available data and models. Our goal is that students will leave the course as both critical consumers and responsible producers of data driven analysis.

We will work in Python in this course, and students must have taken Data 8 before enrolling. The course is designed to complement and reinforce Berkeley’s data science curriculum, in particular Data 100 (though Data 100 is not a prerequisite). Whereas Data 100 focuses on a very broad set of data science tools including modeling, web technologies, working with text, databases and statistical inference, this course focuses more on how to use prediction methods as decision-making tools in energy and environment contexts.

This is a four unit course, with three hours of lecture and two hours of lab section each week. Lectures will focus on theoretical and conceptual material but also introduce the programming structures required to use the material. Labs will be computer working sessions with a GSI and lab helpers available to work through weekly lab exercises.

Prerequisites

- (required) Foundations of Data Science (CS/INFO/STAT C8)
- (recommended) Computing: An introductory programming course (CS61A or CS88).
- Math:
  - (required) High school or college calculus.
  - (recommended) Linear Algebra (Math 54, EE 16a, or Stat89a).
Satisfaction of degree requirements

This course can be used to satisfy the following requirements.

- Upper division domain emphasis for Data Science major
- Engineering Elective for Energy Engineering
- Upper division requirement for Energy and Resources Group minor

Resources

- You will need your own computer, but virtually any operating system will do (OSX, Windows, Linux, Chromebook).
- We will draw some material from Berkeley’s Data 100 course book, freely available here: https://www.textbook.ds100.org
- We will draw material from the excellent textbook, *Introduction to Statistical Learning*, available in both print and pdf form.
- We will do a variety of readings from peer reviewed journals and popular press.
- Lectures, readings, and solutions will all be available on the course github site: https://github.com/duncancallaway/ER131_2020.
- You’ll complete all HW and lab assignments using Python, within Jupyter notebooks hosted on datashub.berkeley.edu.
- Links for assignments will be posted on bCourses. You’ll submit work there, too.

Assessment

The course will have weekly labs and homework assignments, a mid-term and a final project. Grading will be as follows:

- Homework: 20%
  - There will be ten. We drop the lowest grade.
  - HW will be released on Thursdays and due the following Thursday.
- Lab assignments: 15%
  - There will be nine. We drop the lowest grade.
  - Released on Mondays and due the following Monday.
  - Attendance is 40% of lab grade, completing the lab is 60% of the grade.
  - Grading will focus on completeness rather than correctness.
- Mid-term: 25% (November 19, in class)
- Final poster: 10% (the poster session will be December 17, 3-6pm)
- Final project: 30% (due December 18 at 6am)
Late policy:
- You may request up to two extensions of two days over the course of the semester. You may distribute those extensions as you wish over homework and lab assignments. Otherwise, we will not accept late homeworks and labs. Coordinate extension requests with the GSI.
- The poster must be presented during the poster session to receive credit.
- For the final project, we drop 10 points out of 100 for each day late, or roughly a full letter grade. Projects submitted after 11:59am on December 18, 2020 will not receive credit.

Working in groups

Homework and labs
You are encouraged to learn from one another by brainstorming solution strategies. However the work you submit must clearly be your own. We will give zero credit for assignment submissions that are identical to one another. If you work with others, be sure to finish assignments on your own. Comments and markdown cells must clearly be your own.

Final project
You must work in groups of 2-3 for the final project. The final project writeup must include a statement describing each team member’s contributions and a statement that all team members agreed the division of labor was equitable.

Schedule

<table>
<thead>
<tr>
<th>Session</th>
<th>Day / Week</th>
<th>Topic</th>
<th>Methods Reading</th>
<th>Domain Reading</th>
<th>Homework assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture 1</td>
<td>8/29/19</td>
<td>Course introduction</td>
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<tr>
<td>Lab 1</td>
<td>Week of 9/2/19</td>
<td>No lab – week of labor day</td>
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<tr>
<td>Lecture 2</td>
<td>9/3/19</td>
<td>Data design</td>
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<tr>
<td>Lecture 3</td>
<td>9/5/19</td>
<td>Pandas, variable types and file types</td>
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<tr>
<td>Lab 2</td>
<td>Week of 9/9/19</td>
<td>Answer HW1 questions; Pandas</td>
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<td>Lecture 4</td>
<td>9/10/19</td>
<td>Pandas, ctd, and data for HW2</td>
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<tr>
<td>Lecture 5</td>
<td>9/12/19</td>
<td>Merge, groupby, pivot</td>
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<td>HW2: Getting started</td>
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<tr>
<td>Lab 3</td>
<td>Week of 9/16/19</td>
<td>Answer HW questions; Exploratory data analysis</td>
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<td>Lecture 6</td>
<td>9/17/19</td>
<td>Exploratory data analysis</td>
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<td>HW2: Pandas, PM2.5 and fires</td>
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<tr>
<td>Lecture 7</td>
<td>9/19/19</td>
<td>Visualization</td>
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<td>HW2: EDA; Wildfire ignitions</td>
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<tr>
<td>Lab 4</td>
<td>Week of 9/23/19</td>
<td>Answer HW questions, visualization</td>
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<tr>
<td>Lecture 8</td>
<td>9/24/19</td>
<td>Intro to modelling, review regression</td>
<td>DS100 Ch 10; ISLR Ch 2</td>
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<td>HW4: Visualization; renewable energy data</td>
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<tr>
<td>Lecture 9</td>
<td>9/26/19</td>
<td>Regression ctd, confidence intervals</td>
<td>ISLR 3.1</td>
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<tr>
<td>Lab 5</td>
<td>Week of 9/30/19</td>
<td>Basic modeling, KNN</td>
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<td>Lecture 10</td>
<td>10/1/19</td>
<td>Multiple Regression; Land Use Regression</td>
<td>ISLR 3.2</td>
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<td>Lecture 11</td>
<td>10/3/19</td>
<td>Regression wrapup, KNN.</td>
<td>ISLR 3.3</td>
<td></td>
<td>HW5: regression</td>
</tr>
</tbody>
</table>
### Course Opportunities: Week of April 27, 2020

## Schedule

<table>
<thead>
<tr>
<th>Session</th>
<th>Day / Week</th>
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</thead>
<tbody>
<tr>
<td>Lab 6</td>
<td>Week of 10/7/19</td>
<td>Answer HW questions, regularization</td>
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<tr>
<td>Lecture 12</td>
<td>10/8/19</td>
<td>Gradient Descent (Campus closed, power outage)</td>
<td>DS100 Ch 11</td>
<td>Novotny et al</td>
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<td>Lab 7</td>
<td>Week of 10/14/19</td>
<td>Ans HW questions; gradient descent</td>
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<td>Lecture 13</td>
<td>10/15/19</td>
<td>Resampling</td>
<td>ISLR 5.1-5.2</td>
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<td>Lecture 14</td>
<td>10/17/19</td>
<td>Model selection and regularization</td>
<td>ISLR 6.1-6.2</td>
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<tr>
<td>Lab 8</td>
<td>Week of 10/21/19</td>
<td>Review resampling</td>
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<td>Lecture 15</td>
<td>10/22/19</td>
<td>Finish regularization</td>
<td>ISLR 4.1-4.3</td>
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<td>Lecture 16</td>
<td>10/24/19</td>
<td>Classification and regression trees</td>
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<td>Lab 9</td>
<td>Week of 10/28/19</td>
<td>Review classification</td>
<td>Sunter et al</td>
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<td>Lecture 17</td>
<td>10/29/19</td>
<td>Guest Lecture (Dan Kammen); Environmental justice</td>
<td>ISLR 8.1-8.2</td>
<td>Pastor</td>
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<td>Lecture 18</td>
<td>10/31/19</td>
<td>Wrap up Ej; wrap of regression trees</td>
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<td>Lab 10</td>
<td>Week of 11/4/19</td>
<td>NaN</td>
<td>ISLR 9.1-9.3</td>
<td>Badger</td>
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<td>Lecture 19</td>
<td>11/5/19</td>
<td>Classification trees; boosting, bagging and ra...</td>
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<td>Lecture 20</td>
<td>11/7/19</td>
<td>Support vector machines</td>
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<td>Lab 11</td>
<td>Week of 11/11/19</td>
<td>No lab – week of veteran’s day</td>
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### Schedule (continued)

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<th>Methods Reading</th>
<th>Domain Reading</th>
<th>Homework assigned</th>
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<tr>
<td>Lecture 21</td>
<td>11/12/19</td>
<td>Guest lecture (Elinor Benami); Wrap up support...</td>
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<td>Lecture 22</td>
<td>11/14/19</td>
<td>Exam Review through HW10 / Lecture 21</td>
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<td>Lab 12</td>
<td>Week of 11/18/19</td>
<td>Exam Review through HW10 / Lecture 21</td>
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<td>Lecture 23</td>
<td>11/19/19</td>
<td>Exam</td>
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<td>Lecture 24</td>
<td>11/21/19</td>
<td>Guest lectures (Evan Sherwin and Emma Tome)</td>
<td>Reading TBD</td>
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<td>Week of 11/25/19</td>
<td>Project check in</td>
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<td>Lecture 25</td>
<td>11/26/19</td>
<td>Neural Networks</td>
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<td>Lab 14</td>
<td>Week of 12/2/19</td>
<td>Project check in</td>
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<td>Lecture 26</td>
<td>12/3/19</td>
<td>Neural Networks</td>
<td>Gabrys et al</td>
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<tr>
<td>Lecture 27</td>
<td>12/5/19</td>
<td>Career panel</td>
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**Fall 2020: NWMEDIA 151AC**

**NWMEDIA 151AC**

Transforming Tech: Issues and Interventions in STEM and Silicon Valley

Abigail De Kosnik
In this course, we will study major tech industry controversies and heavily criticized tech products, policies, and effects, including technologies used at the U.S.-Mexico border, social media platforms’ spread of disinformation and fake news, racial bias in algorithms, and internet trolling and harassment. We will also examine tech companies’ long-running tendency to exclude women and non-Asian minorities, and how tech workers have occasionally come under fire for the industry’s harms. Students will be required to brainstorm and design their own interventions into the workings of the tech sector to make it more inclusive, equitable, and diverse.

*This course fulfills the American Cultures requirement, the Electrical Engineering and Computer Science Ethics requirement, and the Media Studies Requirement Group B: Specialization in a Medium.*

**Summer 2020: BASE Business Program at Haas**

*July 6 - August 14, 2020*

If you are free this July and August we have a unique summer business program at Haas. **We will facilitate the Haas BASE Summer Program remotely in 2020, including instruction, career workshops and company events.** We have reduced the cost of the program from $10,000 to $8,500 for 2020. Partial financial aid may be available.

If you are free this summer here is an opportunity to complement your Cal degree with a rigorous summer business program and add the words "Haas" and "Business" to your resume.

The Haas School of Business invites you to consider the **BASE Summer Program (Business for Arts, Sciences and Engineering)**. BASE is a six-week business boot camp that enables non-business majors and recent graduates to take business courses while earning full academic credit. Some former BASE students have gone on to earn MBA degrees, while others have accepted jobs in marketing, product development, consulting, financial services, and technology. **BASE students receive many benefits, including custom workshops, company visits, lunches, small class size with top professors and Haas Alumni Network benefits.**
The ideal participant of the BASE Program is an undergraduate student majoring in liberal arts, sciences or engineering. BASE is the only premier business summer program or institute where students can earn units.

**Partial Financial Aid for Berkeley Students**
Some UC Berkeley students are eligible for partial summer financial aid which can partially cover the cost of the program. More information is here (BASE courses are 9 semester units in Summer Session D): [http://financialaid.berkeley.edu/summer-aid](http://financialaid.berkeley.edu/summer-aid)

**Application Process**
We encourage you to apply as soon as possible given the popularity of the Program in the past 22 years. There is no application fee.

Check out the BASE website if you have any questions. We look forward to reading your application!