## Unofficial Guide to Fall 2024 Climate-Related Courses

Follow links to the Course Catalogue for more detail

Are we missing a climate-related class? E-mail bruceriordan@berkeley.edu

<table>
<thead>
<tr>
<th>Class</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A History of the Present: The U.S. After 9/11</td>
<td>17</td>
</tr>
<tr>
<td>Activism, Protest, and the Politics of Change</td>
<td>27</td>
</tr>
<tr>
<td>Aesthetic Forms in the Anthropocene</td>
<td>30</td>
</tr>
<tr>
<td>Another Architecture: Restaging Climate Futures</td>
<td>23</td>
</tr>
<tr>
<td>Atmosphere, Ocean, and Climate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>Back to the Future, Bay Area-Style</td>
<td>29</td>
</tr>
<tr>
<td>Biogeography</td>
<td>10</td>
</tr>
<tr>
<td>Biological Impacts of Climate Change — Freshman Seminars</td>
<td>4</td>
</tr>
<tr>
<td>Cleantech to Market (C2M – Haas)</td>
<td>38</td>
</tr>
<tr>
<td>Climate Change Adaptation</td>
<td>7</td>
</tr>
<tr>
<td>Climate Change and Business Strategy (Haas)</td>
<td>36</td>
</tr>
<tr>
<td>Climate Change and City Planning: Adaptation and Resilience</td>
<td>11</td>
</tr>
<tr>
<td>Climate Change Economics</td>
<td>3</td>
</tr>
<tr>
<td>Climate Justice Seminar</td>
<td>23</td>
</tr>
<tr>
<td>Climate Resilient Infrastructure Design Studio</td>
<td>24</td>
</tr>
<tr>
<td>Climate, Energy and Development</td>
<td>25</td>
</tr>
<tr>
<td>Climate, People, and Informatics</td>
<td>5</td>
</tr>
<tr>
<td>Climate: Politics, Finance and Infrastructure (Haas/Goldman)</td>
<td>39</td>
</tr>
<tr>
<td>Climate Solutions Fund</td>
<td>41</td>
</tr>
<tr>
<td>Data Science in Global Change Ecology</td>
<td>9</td>
</tr>
<tr>
<td>Data Science: Urban Transitions to Carbon Neutrality</td>
<td>28</td>
</tr>
<tr>
<td>Ecological Analysis</td>
<td>21</td>
</tr>
<tr>
<td>Energy and Environmental Markets (Haas)</td>
<td>37</td>
</tr>
<tr>
<td>Feminist Environmental Ethics</td>
<td>19</td>
</tr>
<tr>
<td>History and Evolution of Planet Earth</td>
<td>7</td>
</tr>
<tr>
<td>History of American Capitalism</td>
<td>33</td>
</tr>
<tr>
<td>Human Health and the Environment in a Changing World</td>
<td>32</td>
</tr>
<tr>
<td>Human Palaeoecology: How Humans Changed the Earth</td>
<td>30</td>
</tr>
<tr>
<td>Indigenous Peoples and Environmental Change in the North American West</td>
<td>15</td>
</tr>
<tr>
<td>Introduction to Climate Change</td>
<td>6</td>
</tr>
<tr>
<td>Land-Atmosphere Interactions</td>
<td>25</td>
</tr>
</tbody>
</table>
Landscape Ecology 8
Leadership & Social Change 31
Leadership for Public Health Changemakers — Changemaker Microcourse 34
Magnificent Diversity: Eco-Thinking in the Age of Climate Change 12
Plant Futures Challenge Lab (Haas) 36
Plants in the Built Environment 18
Political Ecologies of Climate Change Adaptation 10
Politics and Social Change 31
Politics of Climate Change and the Environment 16
Renewable Energy Policy in the United States 34
Rhetoric of the Anthropocene — Research Seminar 13
Silicon Valley and the Global Economy 27
Stories of Sustainability 16
Sustainable Impact and Climate Investing Landscape (Haas) 40
Sustainable Investment Fund (Haas) 35
Systems Change for a Small Planet — Health Issues Seminars 14
Tools for Thinking Strategically about the Future 32
Topics in Responsible Business: Brands & Sustainability 41
Topics in Science and Technology Studies 20
Towards Community-Centric Futures 26
Writing the American City: New York to California 22
Atmosphere, Ocean, and Climate Dynamics

2024 Fall

EPS C181.001 - LEC 001 offered through Earth and Planetary Science (opens in a new tab)

William R Boos

Aug 28 2024 - Dec 13 2024

M, W

2:00 pm - 3:29 pm

McCone 325 (opens in a new tab)

Class #: 21437

Units: 3

Instruction Mode: In-Person Instruction

Open Seats

19 Unreserved Seats

Also offered as: GEOG C139

This course examines the processes that determine the structure and circulation of the Earth's atmosphere and ocean, and how they control regional and global climate. The approach is deductive rather than descriptive: to determine the properties and behavior of the atmosphere and ocean based on the laws of physics and fluid dynamics. Topics will include interaction between radiation and atmospheric composition; the role of water in the energy and radiation balance; governing equations for atmospheric and oceanic motion, mass conservation, and thermodynamic energy balance; geostrophic flow, quasigeostrophic motion, baroclinic instability, and dynamics of extratropical cyclones and wind-driven ocean gyres.

Climate Change Economics

2024 Fall

ENVECON C176.001 - LEC 001 offered through Agricultural and Resource Economics and Policy (opens in a new tab)

David Anthoff
Aug 28 2024 - Dec 13 2024

M, W, F

10:00 am - 10:59 am

Li Ka Shing 245 (opens in a new tab)

Class #:27973

Units:4

Instruction Mode: In-Person Instruction

Open Seats

25 Seats Reserved for Environmental Economics and Policy Majors

26 Seats Reserved for College of Natural Resources Students with 5 or more Terms in Attendance

20 Seats Reserved for Rausser College of Natural Resources: New Transfer Students

Also offered as: ENERES C176, IAS C176

This course is a self-contained introduction to the economics of climate change. Climate change is caused by a large variety of economic activities, and many of its impacts will have economic consequences. Economists have studied climate change for more than two decades, and economic arguments are often powerful in policy decisions. The course will familiarize students with these arguments and equip them with the tools to participate in discussions of climate change policy through an economic lens.

**Biological Impacts of Climate Change — Freshman Seminars**

2024 Fall

INTEGBI 24 004 - SEM 004 offered through Integrative Biology(opens in a new tab)

Caroline Margaret Williams

Aug 28 2024 - Dec 13 2024

Tu

2:00 pm - 2:59 pm

Valley Life Sciences 4110 (opens in a new tab)
The pace of current climate change is orders of magnitude faster than any changes experienced in the Earth's past. This is reconfiguring biological diversity in ways that we are only beginning to recognize. Organisms are shifting their distributions in time and space, and experiencing population fluctuations and extinctions. In this seminar we will explore the biological impacts of climate change on plants, animals (including humans), communities, and ecosystems. This seminar is for anyone who cares about the planet and wants to understand climate change research and become a more effective advocate for understanding climate change. You must be prepared to fully engage with the course, contribute actively to discussions, and do all the readings.

Climate, People, and Informatics

2024 Fall

INFO 290 002 - LEC 002 offered through School of Information(opens in a new tab)

John Chuang

Aug 28 2024 - Dec 13 2024

M, W

4:30 pm - 5:59 pm

South Hall 205 (opens in a new tab)

Peoples and communities around the world will be confronting the challenges of climate change, ecosystem degradation, and biodiversity loss for many decades to come. This
course will explore the different ways in which the informatics and computing field can contribute to our individual and collective efforts to mitigate and adapt to the effects of climate change. Through readings and discussions, students will critically engage with foundational and leading-edge perspectives on diverse topics such as systems thinking for sustainable computing, sustainability in/through design, collapse informatics, fighting climate misinformation and climate anxiety, as well as how knowledge and tools from the fields of machine learning, human-computer interaction, web3, IoT, and remote sensing are being applied to novel solutions in many different settings. Student-led projects will research the information needs and information seeking behaviors of individuals and communities, both now and into the future, and design information tools and resources to support them in their efforts of climate mitigation, adaptation, advocacy, and education.

Introduction to Climate Change

2024 Fall

EPS 7_001 - LEC 001 offered through Earth and Planetary Science(opens in a new tab)

David M Romps

Aug 28 2024 - Dec 13 2024

M, W, F

2:00 pm - 2:59 pm

Internet/Online

Class #:23322

Units:3

Instruction Mode: Online

Open Seats

891 Unreserved Seats

This course covers the physical processes that determine Earth’s past, present, and future climate, with a particular focus on the essentially irreversible climate change (a.k.a., global warming) caused by the burning of coal, oil, and natural gas. Topics will also include the estimation of future warming and impacts, the Earth resources that can be used to combat climate change, and the policies being used to shift towards the use of those resources.
Climate Change Adaptation

2024 Fall

CIVENG 108,001 - LEC 001 offered through Civil and Environmental Engineering(opens in a new tab)

Mark Stacey

Aug 28 2024 - Dec 13 2024

Tu, Th

12:30 pm - 1:59 pm

Hearst Mining 390 (opens in a new tab)

Class #:29724

Units:3

Instruction Mode: In-Person Instruction

Open Seats

83 Unreserved Seats

In this course, we will examine the local manifestation of global climate change and consider interventions and responses that anticipate long-term change in communities. The course will integrate environmental sciences, civil and environmental engineering, and the social sciences to both understand the impacts of global change and to quantitatively evaluate possible adaptation interventions. Upon completing the course, you will have a holistic perspective on the challenges associated with climate change adaptation, an understanding of the wide range of potential solutions and interventions that may be possible, and an awareness of the strengths and weaknesses of those solutions.

History and Evolution of Planet Earth

2024 Fall

EPS 102,001 - LEC 001 offered through Earth and Planetary Science(opens in a new tab)

Daniel A Stolper

Aug 28 2024 - Dec 13 2024

Tu, Th
2:00 pm - 3:29 pm
Physics Building 2
Class #:23990
Units:4
Instruction Mode: In-Person Instruction
Open Seats
15 Unreserved Seats
Formation and evolution of the earth. Nucleosynthesis; formation of the solar system; planetary accretion; dating the earth and solar system; formation of the core, mantle, oceans, and atmosphere; plate tectonics; heat transfer and internal dynamics; stratigraphic record of environment, and evolution; climate history and climate change.

Landscape Ecology

2024 Fall
ESPM 137 001 - LEC 001 offered through Environmental Science, Policy, and Management(opens in a new tab)
Rainbow Desilva
Aug 28 2024 - Dec 13 2024
M, W
10:00 am - 10:59 am
Cory 247 (opens in a new tab)
Class #:27787
Units:3
Instruction Mode: In-Person Instruction
Open Seats
10 Seats Reserved for Rausser College of Natural Resources: New Transfer Students
This course will cover broad topics in landscape ecology with the goal of answering the core questions of how patterns develop on landscapes, how these patterns relate to biotic
and abiotic processes, and how these patterns and processes change through time. Lab exercises will focus on practical aspects of landscape ecological analysis using modern tools like remote sensing, GIS, population modeling, and landscape genetics.

**Data Science in Global Change Ecology**

2024 Fall

ESPM 157 001 - LAB 001 offered through [Environmental Science, Policy, and Management](opens in a new tab)

Carl Boettiger

Aug 28 2024 - Dec 13 2024

M, W

12:00 pm - 1:59 pm

[Wheeler 212](opens in a new tab)

Class #:28012

Units:4

Instruction Mode: In-Person Instruction

Open Seats

2 Seats Reserved for Ecosystem Management and Forestry: Natural Resources Management Majors with 5 or more Terms in Attendance

10 Seats Reserved for Rausser College of Natural Resources: New Transfer Students

3 Seats Reserved for Ecosystem Management and Forestry: Forestry Majors with 5 or more Terms in Attendance

Many of the greatest challenges we face today come from understanding and interacting with the natural world: from global climate change to the sudden collapse of fisheries and forests, from the spread of disease and invasive species to the unknown wealth of medical, cultural, and technological value we derive from nature. Advances in satellites and micro-sensors, computation, informatics and the Internet have made available unprecedented amounts of data about the natural world, and with it, new challenges of sifting, processing and synthesizing large and diverse sources of information. In this course, students will learn and apply fundamental computing, statistics and modeling concepts to a series of real-world ecological and environment
Biogeography

2024 Fall

ESPM C125 001 - LEC 001 offered through Environmental Science, Policy, and Management(opens in a new tab)

Jeffrey Q Chambers, Rosemary G Gillespie

Aug 28 2024 - Dec 13 2024

Tu, Th

9:30 am - 10:59 am

Cory 247 (opens in a new tab)

Class #:28064

Units:4

Instruction Mode: In-Person Instruction

Open Seats

5 Seats Reserved for College of Natural Resources Students

Also offered as: GEOG C148, INTEGBI C166

The course will provide a historical background for the field of biogeography and the ecological foundations needed to understand the distribution and abundance of species and their changes over time. It will also discuss developing technologies (including genomic tools and environmental models) together with the availability of big data and increasingly sophisticated analytical tools to examine the relevance of the field to global change biology, conservation, and invasion biology, as well as sustainable food systems and ecosystem services.

Political Ecologies of Climate Change Adaptation

2024 Fall

ENERES C266 001 - SEM 001 offered through Energy and Resources Group(opens in a new tab)

Aug 28 2024 - Dec 13 2024

M
As the climate crisis escalates and mitigation efforts stagnate, adaptation has come to the forefront of public debates and funding priorities. This course will explore the varied political ecologies of climate change adaptation. By drawing on political ecology, this course will include both foundational and emerging scholarship that explores how climate change adaptation is shaping and being shaped by the material impacts of climate change, the political economy of climate governance and finance, and the agency of experts, funders, promoters, and the individuals and collectives adapting to climate change. We will examine the history of climate change adaptation concepts and governance while also exploring emerging frontiers in the field.

**Climate Change and City Planning: Adaptation and Resilience**

2024 Fall

[ENVDES 102 001 - LEC 001](#) offered through [Institute of Urban & Regional Development Programs](#)

Stephen John Collier, Ruby Zalduondo

Aug 28 2024 - Dec 13 2024

Tu, Th

9:30 am - 10:59 am

[Wurster 106](#)
Time Conflict Enrollment Allowed

Open Seats

25 Seats Reserved for Sustainable Environmental Design Majors with 7 or more Terms in Attendance

5 Seats Reserved for Students with Enrollment Permission

4 Seats Reserved for Minors in City & Regional Planning with 7 or more Terms in Attendance

3 Seats Reserved for Sustainable Design Minors with 7 or more Terms in Attendance

5 Seats Reserved for College of Environmental Design Students with 7 or more Terms in Attendance

This course introduces students to major issues in urban resilience and adaptation planning, particularly in relation to anthropogenic climate change. By the end of the course, students will have: (1) a critical understanding of key concepts such as risk, vulnerability, adaptation, and resilience; (2) an understanding of the interaction between adaptation planning, policy, and urban operating systems such as infrastructures, finance, and land use governance; (3) a basic introduction to practical tools such as vulnerability mapping, urban carbon budgeting, and participatory vulnerability assessment. The course will primarily draw on case material from the United States and secondarily from selected international cases.

**Magnificent Diversity: Eco-Thinking in the Age of Climate Change**

2024 Fall

[COLWRIT R1A 024 - SEM 024](#) offered through [College Writing Programs](#)

Teri Crisp

Aug 28 2024 - Dec 13 2024

M, W

2:00 pm - 4:59 pm

[225](#)

Class #:25269

Units:6
A hallmark of humanity is our extraordinary creativity, born and nurtured within the natural world. Yet human industry and development have caused the alarming loss of nature and climate change. What obligations do we have to other species, ecosystems, each other, and coming generations? How can wild nature be conserved and restored? What can we learn from cultures, past and present, whose vision and values have embraced earth’s wonders? These are some of the questions we will pursue through reading a variety of writers—scientists, activists, journalists, poets, and others—and through films and art. Through the term, you will have the opportunity to develop your perspectives in writing and lively discussion. Note that this section is reserved for students whose first language is other than English.

Rhetoric of the Anthropocene — Research Seminar

2024 Fall

ENGLISH 190 002 - SEM 002 offered through English(opens in a new tab)

Amanda J Goldstein

Aug 28 2024 - Dec 13 2024

Tu, Th

9:30 am - 10:59 am

Wheeler 306 (opens in a new tab)

Class #:16329

Units:4

Instruction Mode: In-Person Instruction

Open Seats

1 Seats Reserved for English Majors with 5 or more Terms in Attendance

“The Anthropocene” names the notion that the Earth has entered a new epoch in its history: a geological era defined, for the first time, by changes that human beings have wrought. As a provocation to grasp the sheer force and planetary scale of human damage to world ecologies, as well as to recast the current climate as the long-term consequence of human (in)action, the concept has been wildly successful. But every aspect of “The
Anthropocene” has also been brilliantly contested, and not only, as one might think, by climate deniers. In this class, we delve into the history, theory, and fiction of “The Anthropocene”—and its discontents—focusing on how the proposed scientific inscription of “the human” (anthropos) into the history of the Earth has ignited profound interdisciplinary debate about the meaning and validity of “the human,” “history,” and “the planet,” generating new friction and collaboration between ecology and literary studies. The question of when and whether “The Anthropocene” began is still a subject of dispute among stratigraphers and climate scientists. Our seminar will pair leading arguments for three possible start dates – 1965, 1784, and 1610—with short fiction, drama, and poetry emanating from those same years, in which the fallout from the Atomic Bomb, the Industrial Revolution, and the genocidal European “discovery” of the Americas, respectively, were registered and concealed in both the Earth’s arctic ice cores and in the literary record. From Shakespeare’s The Tempest to Romantic “nature poetry” and the speculative worlds of Octavia Butler and Ursula Le Guin, how has “Anthropocene literature” that did not know itself as such grappled with the question of climate and culpability? How has it reinforced and challenged the human/nonhuman binarism that would come to haunt Anthropocene theory? For as humanists (especially literary eco-critics and scholars of indigenous, postcolonial, critical race, feminist and Marxist studies) have been eager to point out, “the Anthropocene’s” built-in stress on human agency in general tends to sideline the question of which humans (and systems) did and are doing the destroying, as well as who has counted as “human.” So in preparation for planning their own research projects, seminar participants will together explore the proliferation of alternatives to “The Anthropocene” – The Eurocene, The Capitalocene, The Plantationocene, and The Cthulucene, among others—designed to refine the concept’s grasp of ecological accountability and lay bare its latent metaphysics. A sequence of smaller assignments and discussions will support each student in developing a 20-page final research paper.

**Systems Change for a Small Planet — Health Issues Seminars**

2024 Fall

PBHLTH 290 005 - SEM 005 offered through School of Public Health(Opens in a new tab)

Kristine Ann Madsen, William B Rosenzweig

Aug 28 2024 - Dec 13 2024

Th

8:00 am - 10:59 am

Chou Hall N540 and N544

Class #:17411
The roots of our major economic, public health and cultural crises – including climate change, diet-related disease, and economic, educational and health inequities – lie in our current economic system. At present, with gross domestic product (GDP) as our key measure of ‘progress,’ our economic system is extractive rather than regenerative, and produces health and other systemic inequities rather than mutual flourishing. In this course, students will use systems thinking to explore how we arrived at our current economic system, the power dynamics and feedback loops that keep the current system in place, and how the system creates or contributes to “sticky” problems like health inequities and climate change. In interdisciplinary teams, students will analyze real-world examples of emerging models that fundamentally reframe the system’s goals to support a flourishing population and planet. Working with other students from multiple disciplines, students will clarify their own values, articulate a vision for a more just and sustainable future, and identify pathways towards achieving their goals.

**Indigenous Peoples and Environmental Change in the North American West**

2024 Fall

[ETHSTD 180 002 - LEC 002](https://www.econet.berkeley.edu) offered through [Ethnic Studies](https://www.econet.berkeley.edu)

John J Dougherty

Aug 28 2024 - Dec 13 2024

Tu, Th

2:00 pm - 3:29 pm

[Dwinelle 209](https://www.econet.berkeley.edu)

Class #:23641

Units:4

Instruction Mode: In-Person Instruction

Open Seats

6 Seats Reserved for Students with 3 or more Terms in Attendance
7 Seats Reserved for Ethnic Studies Majors

This course explores the dynamic relationships between indigenous communities and the continuously changing environmental landscapes of the North American West from before European contact to the present, and how these communities have continually adapted traditional cultural practices to meet ever-changing environmental realities. With this broader context, this course examines how specific indigenous communities have navigated their relationship with the natural world amidst the challenges of colonialism, globalization, environmental ruin, and climate change in the North American West. Additionally, this course highlights the active role of Native peoples in regional and environmental histories of the region.

Stories of Sustainability

2024 Fall

COLWRIT R4B 011 - SEM 011 offered through College Writing Programs(opens in a new tab)

Kimberly Freeman

Aug 28 2024 - Dec 13 2024

Tu, Th

2:00 pm - 3:29 pm

Dwinelle 210 (opens in a new tab)

Class #:21247

Units:4

Instruction Mode: In-Person Instruction

Open Seats

11 Unreserved Seats

Whether or not one believes our climate is changing or that humans are contributing to these changes, one can’t deny the prominence of the idea in our current global culture. Not only is it a common occurrence on newspaper front pages and a popular theme in social media like Twitter, but it is also an issue that affects an array of subcultures, from nations and neighborhoods to academic disciplines and the arts. The aim of this course is not to prove or disprove any particular aspect of climate change or sustainability. Rather the theme of this course focuses on the stories we tell about sustainability. We’ll read and watch an array of media, from popular forms, such as films, T.V. shows, newspapers, and web sites. One of the ways that we tell stories is through our different academic
disciplines, so we'll also get a taste of writing in different disciplines as well as in different academic forms, such as research articles and reviews, from a variety of disciplines, such as biology, international relations, and economics. Students will write a variety of analytical essays, as well as write their own research project.

**Politics of Climate Change and the Environment**

2024 Fall

POLSCI 210 003 - SEM 003 offered through Charles & Louise Travers Dept of Political Science(opens in a new tab)

Amanda Clayton

Aug 28 2024 - Dec 13 2024

Th

3:30 pm - 5:29 pm

Social Sciences Building 749

Class #:33363

Units:4

Instruction Mode: In-Person Instruction

Open Seats

15 Seats Reserved for Political Science: Graduate Students

See departmental announcements. Topic will vary with instructor.

**A History of the Present: The U.S. After 9/11**

2024 Fall

AMERSTD 101 003 - LEC 003 offered through Undergraduate Interdisciplinary Studies(opens in a new tab)

Michael M Cohen

Aug 28 2024 - Dec 13 2024

M, W

2:00 pm - 3:59 pm
This interdisciplinary course explores the history of the United States since 9/11/2001. Using historical and cultural studies methods to study the recent past, we will take on the political, economic, social, technological, environmental and cultural changes that have remade America within our own lifetimes. This era has been characterized by an almost permanent state of crisis in which our democracy, our health and sanity, our jobs and relationships, and our planet all feel on the verge of collapse. The origins of this present crisis is our primary topic. Key subjects include the long war on terror, the financial crisis within global capitalism, race and the culture wars of the Obama era, America’s widening political polarization, and the impact of climate change on our bodies, landscapes and culture. Together, we will reconsider the history of a past that we have all somehow survived and must continue to live through.

Plants in the Built Environment

2024 Fall

CIVENG 290 002 - LEC 002 offered through Civil and Environmental Engineering

Cynthia Gerlein-Safdi

Aug 28 2024 - Dec 13 2024

Tu, Th

11:00 am - 12:29 pm

Cory 289

Class #:19115

Units:3

Instruction Mode: In-Person Instruction

Open Seats
This course will look into the role of vegetation within the built environment, primarily cities, but also built structures such as dammed reservoirs, or transportation networks. The course will start with an introduction to plant anatomy, hydraulics, and photochemical cycles. We will then focus on the impacts of plants on water, air, and energy within these environments and how their presence can make cities better adapted to climate change. Most specifically, we will look at both the benefits provided by the presence of vegetation, as well as some of the possible drawbacks of the interaction between plants and built structures. Finally, we will examine the impact of the built environment on plant growth and development (impact of pollution, lack of water, etc), the consequences of species choices on urban biodiversity, as well as the central role of vegetation in improving environmental justice and equity.

**Feminist Environmental Ethics**

2024 Fall

GWS 111 001 - LEC 001, offered through Gender and Womens Studies

Courtney Desiree Morris

Aug 28 2024 - Dec 13 2024

Tu, Th

9:30 am - 10:59 am

Social Sciences Building 587

Class #:24837

Units:4

Instruction Mode: In-Person Instruction

Open Seats

20 Unreserved Seats

We are living in a moment of crisis. The advances of the “Green Revolution,” the boom in population growth, advances in communication and biotechnologies combined with deepening patterns of overconsumption in the developed world threaten the survival of human life on Earth. While there is a growing body of literature that addresses this ecological crisis little of it meaningfully addresses how social processes of white supremacy, patriarchy, free market capitalism, and technological fundamentalisms have engendered this crisis. In this course, we will bring feminist and critical race theory into
conversation with the debate on global economic and environmental collapse and consider how these theoretical frameworks might enable a more expansive and transformative vision for planetary justice and necessitate more equitable global arrangements of power. We will examine how dynamics of culture, race, gender, sexuality, and capital intersect with questions of environmental sustainability, climate change, resource privatization, queer politics, and reproductive justice. We will explore the prevailing ethical frameworks that have historically structured the relationship between human and non-human species and draw from critical perspectives from feminist, queer, critical race and decolonial theory to articulate a new set of planetary ethics for survival and co-existence on a finite planet. The course readings will draw from popular science literature, speculative fiction, ethnographic/historical texts, and documentary films. This is an interactive and discussion-based course that requires active participation, debate, and critical thinking.

Topics in Science and Technology Studies

2024 Fall

HISTORY C250 001 - SEM 001 offered through History(opens in a new tab)

Massimo Mazzotti

Aug 28 2024 - Dec 13 2024

M

10:00 am - 11:59 am

Stephens 470 (opens in a new tab)

Class #:21608

Units:3

Instruction Mode: In-Person Instruction

Open Seats

5 Unreserved Seats

Also offered as: ESPM C252, STS C200

This seminar is designed to provide a rigorous foundation in the interdisciplinary field of Science and Technology Studies (STS). This course provides a strong foundation for graduate work in STS, a multidisciplinary field with a signature capacity to rethink the relationship among science, technology, and political and social life. The course will proceed in two parts. In the first half of the course, we’ll discuss the emergence of major themes and issues in the field and assess strengths and weaknesses of leading theories and
research methodologies. We’ll explore the relationship between science, technology, culture, and politics through exemplary case-studies from different periods and contexts. In the second half of the course, we will think about these problems on the grounds of terms and disciplinary foci that have come to the forefront of our field(s). From climate change to population genomics, access to medicines and the impact of new media, the problems of our time are simultaneously scientific and social, technological and political, ethical and economic. This reading seminar is a required core course for the Designated Emphasis in Science and Technology Studies (DE in STS).

**Ecological Analysis**

2024 Fall

[ESP C110A 001 - LEC 001](https://www.science.ucsb.edu/environmental-science-policy-and-management) offered through [Environmental Science, Policy, and Management](https://www.science.ucsb.edu/environmental-science-policy-and-management)

Iryna Dronova

Aug 28 2024 - Dec 13 2024

Tu, Th

11:00 am - 12:29 pm

Internet/Online

Class #:28196

Units:4

Instruction Mode: Online

Open Seats

7 Seats Reserved for College of Natural Resources Students

4 Seats Reserved for Conservation & Resource Studies Majors

5 Seats Reserved for Undergraduate Students: Ecosystem Management and Forestry Majors

Also offered as: [LDARCH C110A](https://www.science.ucsb.edu/architecture)

This course focuses on natural factors of the environment that are fundamental to ecosystem management, land use planning and landscape design and their relationships to one another in different terrestrial ecosystems, from predominantly natural to predominantly anthropogenic. Lectures explore the key concepts on ecosystem structure, function and dynamics and discuss different types of ecological data, their interpretation
and visualization that can aid in landscape research, planning and design workflow. Laboratory sections advance lecture topics by providing hands-on training in common types of ecosystem analyses using quantitative methods and geospatial tools.

**Writing the American City: New York to California —**

2024 Fall

[ENGLISH R1B 019 - LEC 019](opens in a new tab) offered through [English](opens in a new tab)

Balthazar I Beckett

Aug 28 2024 - Dec 13 2024

Tu, Th

6:30 pm - 7:59 pm

[Wheeler 301](opens in a new tab)

Class #:26880

Units:4

Instruction Mode: In-Person Instruction

Open Seats

13 Unreserved Seats

The American city is a complex and dynamic organism—and the subject of a great body of literature—both fiction and non-fiction. This course will trace and critically engage how American urban development has been written about from the early twentieth century to today. We will follow how writers have addressed the dramatic changes that American urban spaces underwent from the progressive era, turn-of-the-century segregation and the experience of the Great Migration to redlining, white flight, and suburbanization in the wake of the New Deal. Studying metropolitan areas across the nation, from New York City to the Bay Area and from Chicago to New Orleans, this course asks students to write critically about urban development from the battles over “urban renewal” and the anti-eviction campaigns of the Civil Rights era to the impact of 1970s neoliberal policies, the “war on drugs” and militarized “broken windows” policing, and the urban uprisings of the early 1990s. We will end this semester by studying how writers address the impact that hyper-gentrification and climate chaos (from disaster capitalism to grassroots organizing) have on American cities today. Building on the skills students acquired in R1A, this course will continue to develop reading, writing, and research skills with the aim to practice writing longer essays that are rhetorically aware and partake in relevant scholarly conversations. Over the course of this semester, students
will submit two shorter essays, before concluding the course by submitting a research paper in which they will partake in a scholarly debate that they feel passionate about.

Climate Justice Seminar

2024 Fall

**CYPLAN 253 001 - SEM 001** offered through [City and Regional Planning](https://www.cityandregionalplanning.org)

Zoe Hamstead

Aug 28 2024 - Dec 13 2024

Tu, Th

2:00 pm - 3:29 pm

[Dwinelle 229](https://www.dwinelle229.org)

Class #:33812

Units:3

Instruction Mode: In-Person Instruction

Open Seats

23 Seats Reserved for Master of City & Regional Planning Students

Another Architecture: Restaging Climate Futures

2024 Fall

**ARCH 139 003 - LEC 003** offered through [Architecture](https://www.architecture.com)

Neyran Turan

Aug 28 2024 - Dec 13 2024

Tu

9:30 am - 12:29 pm

[Wurster 270](https://www.wurster270.org)

Class #:33297
How do we reimagine architecture on a burning planet marching toward climate catastrophe? Instead of greenwashing, how can we imagine, project, and practice architecture with a sense of sustained optimism? This course starts with the provocation that this possibility begins, first and foremost, with a radical reimagining of architecture itself as a field. Through the idea of restaging, the course positions architecture—both as a discipline and a practice—as a possible framework for imagining probable post-carbon climate futures. Organized around various themes and case studies, the seminar aims to identify new directions for critical thinking and speculative work in contemporary architecture, design, and scholarship.

Climate Resilient Infrastructure Design Studio

2024 Fall

CIVENG 292B 101 - STD 101 offered through Civil and Environmental Engineering(opens in a new tab)

Mark Stacey, Bry Sarte

Aug 28 2024 - Dec 13 2024

F

3:00 pm - 4:59 pm

Davis 534 (opens in a new tab)

Class #:33463

Units:3

Instruction Mode: In-Person Instruction

Open Seats

33 Unreserved Seats
Climate, Energy and Development

2024 Fall

DEVP 221 001 - LEC 001 offered through Development Practice Graduate Group (opens in a new tab)

Fredrich Kahrl, Ranjit Bharvirkar

Aug 28 2024 - Dec 13 2024

Tu, Th

12:00 pm - 1:29 pm

Graduate Theological Union 222

Class #:28142

Units:3

Instruction Mode: In-Person Instruction

Open Seats

40 Seats Reserved for Master of Developmental Practice Students

Graduate seminar examining the role of energy science, technology, and policy in international development. The course will look at how changes in the theory and practice of energy systems and of international development have co-evolved over the past half-century, and what opportunities exist going forward. A focus will be on rural and decentralized energy use, and the issues of technology, culture, and politics that are raised by both current trajectories, and potential alternative energy choices. We will explore the frequently divergent ideas about energy and development that have emerged from civil society, academia, multinational development agencies, and the private and industrial sector.

Land-Atmosphere Interactions

2024 Fall

ESPM 290 001 - SEM 001 offered through Environmental Science, Policy, and Management (opens in a new tab)

Lucas Randall Vargas Zeppetello

Aug 20 2024 - Nov 21 2024
This course will give students a primer on boundary layer meteorology, and cycles of energy, water, and carbon between the land surface and the atmosphere. We will discuss how processes on timescales ranging from a few hours; like the diurnal cycle of surface heating, to decades; like the possibilities of multiple equilibrium states of a land surface influenced by precipitation recycling, influence land surface climate variability. Applications to agriculture, human health, and ecosystems will also be discussed. Students will lead class presentations on a few classic papers in the field and develop a term project that will either be a literature review or a presentation of new research.

Towards Community-Centric Futures

2024 Fall

ARCH 119 001 - SEM 001 offered through Architecture(opens in a new tab)

Aug 28 2024 - Dec 13 2024

Th

10:00 am - 12:59 pm

Wurster 270 (opens in a new tab)

Class #:20824

Units:3

Instruction Mode: In-Person Instruction

Open Seats

5 Unreserved Seats
In an increasingly inequitable world, how do we design for communities at the margins by centering their lived experiences? In this course, students will research ways to apply participatory processes and investigate how social design practice can be used to address societal issues that lie at the intersections of the built environment, gender and identity, social and health inequity, climate vulnerability, and other critical societal issues. Designed as a workshop series, this course aims to equip students with tools and processes to facilitate their imagination of new inclusive futures through the built environment. Centering the voices and wisdom of marginalized communities, students will hear directly from community leaders. These workshops will serve as a lab for testing, iterating and improving processes for community engagement and design for spatial justice.

Activism, Protest, and the Politics of Change

2024 Fall

UGIS 162D 001 - LEC 001 offered through Undergraduate Interdisciplinary Studies(opens in a new tab)

Aug 28 2024 - Dec 13 2024

Class #:24164

Units:4

Instruction Mode: In-Person Instruction

Open Seats

50 Unreserved Seats

How does social and political change happen in Washington? This class will explore the history of grassroots mobilization and advocacy on the national stage. By observing advocacy events and interacting with guest speakers, students will learn about the successes and failures of social groups’ efforts to make lasting change in American politics and society. The class will cover agenda setting and messaging, as well as techniques used to influence public debate such as protests, advocacy campaigns, petitions, and electoral lobbying. Students will learn about and discuss which types of groups and leaders engage in which strategies, and at what stage of the policy process they are most likely to be effective.

Silicon Valley and the Global Economy

2024 Fall

POLECON 156 001 - LEC 001 offered through Interdisciplinary Social Science Programs(opens in a new tab)
Crystal Chang

Aug 28 2024 - Dec 13 2024

Tu, Th

11:00 am - 12:29 pm

Genetics & Plant Bio 107 (opens in a new tab)

Class #:24481

Units:4

Instruction Mode: In-Person Instruction

Open Seats

5 Seats Reserved for Students with Enrollment Permission

This course investigates the historical origins and institutional ecosystem of Silicon Valley by identifying key factors in the development of Silicon Valley, as well as political circumstances and cultural conditions that have sustained its important role in the global economy. Questions like these will be addressed: Will Silicon Valley and artificial intelligence render workers irrelevant? Have the region’s tech giants like Google, Apple and Facebook become the monopolists of the new Gilded Age, and should they be broken up? Has Silicon Valley peaked? Is the “Silicon Valley model” unique or can it be replicated elsewhere? Lectures are discussion-driven, interactive, and will be complemented by films, debate, and group work.

Data Science: Urban Transitions to Carbon Neutrality —

2024 Fall
CYPLAN 190 002 - LEC 002 offered through City and Regional Planning(opens in a new tab)
Nader Afzalan
Aug 28 2024 - Dec 13 2024
Tu
4:00 pm - 6:59 pm
Wurster 214B (opens in a new tab)
Class #:15126
Units:3

Instruction Mode: In-Person Instruction

Time Conflict Enrollment Allowed

Open Seats
13 Seats Reserved for Urban Studies Majors with 7 or more Terms in Attendance

5 Seats Reserved for Students with Enrollment Permission

7 Seats Reserved for Urban Studies Majors with 5 or more Terms in Attendance

Data science has become a key element in creating carbon-neutral cities and regions. Planners and policymakers should access and use data and technologies more effectively for shaping climate-responsive cities that are equitable and resilient. This course introduces using data systems and technologies for developing plans and policies that support creating just and carbon-neutral cities.

Back to the Future, Bay Area-Style

2024 Fall

ENGLISH R1B 020 - LEC 020 offered through English(opens in a new tab)
Balthazar I Beckett
Aug 28 2024 - Dec 13 2024
Tu, Th
3:30 pm - 4:59 pm
Wheeler 301 (opens in a new tab)
Class #:26879
Units:4

Instruction Mode: In-Person Instruction

Open Seats

10 Unreserved Seats

All too often, one could argue, we leave it up to Silicon Valley, Wall Street, or Hollywood to envision the future: Together, these economic and cultural power brokers are holding our collective imagination captive in lurid fantasies of human optimization, endless economic growth, or gratuitous violence. Alongside the wholesale destruction of the Bay Area in recent blockbuster movies, current, purportedly progressive, initiatives fueled by tech wealth include the turning of entire San Francisco neighborhoods into a tech campus or the creation of a new, planned city on the outskirts of the Bay Area. While seemingly utopian, these visions are deeply rooted in socioeconomic (and subsequently ethnic) exclusion, corporate greed, and tech surveillance. Yet alongside these futures conjured up by tech, finance, and blockbusters, there exists an established, more nuanced, complex body of literary texts that envisions utopian and dystopian futures right here, in the Bay Area (or at least not far from here). Such literary renderings envision our collective response to the actual challenges of accelerating climate breakdown, deadly pandemics, and decaying democratic structures as sites of radical possibility—from which societies freed from capitalism, cars, corporations, and other such calamities emerge. This course will examine these past and present imaginings of our future
critically, examining the historical moment that gave birth to each envisioning as well as
the concerns, themes, and tropes that are at the focus of these works.

**Human Palaeoecology: How Humans Changed the Earth**

**How Humans Changed the Earth**

2024 Fall  
[ANTHRO 129D 001 - LEC 001](#) offered through [Anthropology](#)  
Lisa A Maher  
Aug 28 2024 - Dec 13 2024  
Tu, Th  
12:30 pm - 1:59 pm  
2251 College 101  
Class #:32637  
Units:4

Instruction Mode: In-Person Instruction

Open Seats

1 Unreserved Seats

5 Seats Reserved for Anthropology Majors

**Aesthetic Forms in the Anthropocene**

2024 Fall  
[GERMAN 204 001 - SEM 001](#) offered through [German](#)  
Sep 13 2024 - Oct 11 2024  
F  
1:00 pm - 3:59 pm  
Dwinelle 282  
Class #:24830  
Units:2

Instruction Mode: In-Person Instruction

Open Seats

16 Unreserved Seats

Taught in German. The concept of the Anthropocene marks a novel understanding of the
Earth as unified, self-regulating system that has increasingly been changed by human
interventions. This calls into question the role and position of humans within this system,
as humanity finds itself in the triple roles of bringing potentially catastrophic change to
the planet, being a victim to this change, but also conscious observers of this process.
This seminar will discuss how, in the light of the Anthropocene diagnosis, we must
rethink the relation between nature and culture, and what this means for art, literature and aesthetic theory. We will examine several aesthetic forms (e.g. the epic, the sublime, the tragic, the comic, the elegiac) that are currently being used and discussed in the context of an aesthetics of the Anthropocene.

Leadership & Social Change

2024 Fall
SOCIOL 119L 001 - LEC 001 offered through Sociology(opens in a new tab)
Joseph Klett
Aug 28 2024 - Dec 13 2024
M, W, F
10:00 am - 10:59 am
Stanley 106 (opens in a new tab)
Class #:26441
Units:4

Instruction Mode: In-Person Instruction

Open Seats

28 Unreserved Seats

37 Seats Reserved for Sociology Majors

Leadership has many meanings in society. What works well in one context cannot always be applied in another. And contexts have history. What works well in one domain does not necessarily work for all time. In this course we will reflect on the meaning of leadership in society. Our focus will be modern ideas of leadership, and how these ideas evolved, succeeded or failed in moments of social change. We will read in the area of organizational sociology with a focus on interactions, institutions and culture. In addition, we will consider work from political science, management studies and history as we attempt to unravel what leadership looks like across a variety of social domains in different states of change.

Politics and Social Change

2024 Fall
SOCIOL 140 001 - LEC 001 offered through Sociology(opens in a new tab)
Michael Rodriguez
Aug 28 2024 - Dec 13 2024
M, W
5:00 pm - 6:29 pm
Latimer 120 (opens in a new tab)
Class #:25719
Units:4

Instruction Mode: In-Person Instruction
Open Seats

10 Unreserved Seats

44 Seats Reserved for Sociology Majors

This survey course studies the relationship between society and politics through an analysis of the intersection of economic development, social relations, and the political sphere. Examines how class, race, ethnicity, and gender interact with political culture, ideology, and the state. The course also looks at diverse forms of political behavior, a key aspect of politics.

Human Health and the Environment in a Changing World

2024 Fall
PBHLTH 150B 001 - LEC 001 offered through School of Public Health(opens in a new tab)
Ajay Pillarisetti
Aug 28 2024 - Dec 13 2024
Tu, Th
12:30 pm - 1:59 pm
Haas Faculty Wing F295 (opens in a new tab)
Class #:30523
Units:3

Instruction Mode: In-Person Instruction

Open Seats

148 Seats Reserved for Public Health Majors

The course will present the major human and natural activities that lead to release of hazardous materials into the environment as well as the causal links between chemical, physical, and biological hazards in the environment and their impact on human health. The basic principles of toxicology will be presented including dose-response relationships, absorption, distribution, metabolism, and excretion of chemicals. The overall role of environmental risks in the pattern of human disease, both nationally and internationally, will be covered. The engineering and policy strategies, including risk assessment, used to evaluate and control these risks will be introduced.

Tools for Thinking Strategically about the Future

2024 Fall
PUBPOL 290 001 - LEC 001 offered through Richard and Rhoda Goldman School of Public Policy(opens in a new tab)
Henry E Brady
Aug 28 2024 - Dec 13 2024
We need to think more analytically about future possibilities if we want to make effective changes in policy. After telling the analyst to “define the problem” and to “assemble evidence,” Gene Bardach’s canonical “Eightfold Path to More Effective Problem Solving” calls on the analyst in the crucial third through sixth steps to think about the future: “construct the alternatives,” “select the criteria,” “project the outcomes,” and “confront the trade-offs.” Social science methodology has focused on descriptive inference that accurately portrays the world as it is, on interpretive approaches that explore the nature of meaning and our understandings of the world in which we live, and on causal inference that gets at the causes of social outcomes, but it has overlooked thinking systematically about imaginative projections of new possibilities that employ the opportunities for change identified by causal inferences and that start from current circumstances captured by descriptive and interpretive inferences. By thinking carefully about the future, policy-makers can imagine projects that put together diverse elements to solve a problem – a Constitution for a fledgling democratic republic in 1789; a master plan for California’s higher education in 1960; a Harlem Children’s zone combining education, health, and neighborhood services; or a Global Warming Solutions Act (AB 32) in California employing market mechanisms and regulatory standards to reduce Green-House Gases. This course uses material from the California 100 project about the future of California and other sources to develop methods of thinking strategically about the future. Students will learn about methods of projection, forecasting, scenario building, and simulation in the context of current policy problems, and they will be asked to do projects on future possibilities.

**History of American Capitalism**

**Business, Work, Labor**

2024 Fall
HISTORY 133A 001 - LEC 001 offered through History(opens in a new tab)
Caitlin C Rosenthal
Aug 28 2024 - Dec 13 2024
M, W, F
9:00 am - 9:59 am
Valley Life Sciences 2050 (opens in a new tab)
Class #:31570
Units:4
What is capitalism? And when did it come to characterize the American economy? This course will explore the economic history of the United States, from the colonial period to the present. We will analyze the dramatic changes that catapulted a chain of colonies from the fringe of the global economy to its center. As the semester progresses, we will seek out the sources of this dramatic

Leadership for Public Health Changemakers — Changemaker Microcourse

2024 Fall
PBHLTH 290C 002 - LEC 002 offered through School of Public Health(opens in a new tab)
Class #:30757
Units:1

Instruction Mode: In-Person Instruction

Leadership is not a title. Leadership is an act. It’s a conscious choice to step up, serve others, and make a difference in our organizations, communities, and our world. This course helps you find your unique leadership voice and step into your own leadership potential in the field of Public Health by exploring three fundamental questions, no matter your background, experience level, or familiarity to date with leadership: WHY am I choosing to lead? Leadership is personal. How will you apply your values, your strengths, your qualities, your motivation, and your lived experiences towards your choice to lead? HOW am I choosing to lead? Leadership is not one-size-fits-all. What approaches, tactics, and mindsets will you bring into defining your own leadership style? WHAT am I choosing to lead? Leadership is a lens for creating positive change, whether within your career, community, team, or organization. What impact will your leadership make possible? This course will include a combination of lectures, group discussions, individual reflection, case studies, and experiential learning activities.

Renewable Energy Policy in the United States

2024 Fall
PUBPOL 283 001 - LEC 001 offered through Richard and Rhoda Goldman School of Public Policy(opens in a new tab)
This course provides a great opportunity to participate in the formation of renewable energy policy. It will focus on the evolution and current status of those policies on the federal, state, and local levels. It will consider the context for promoting renewables in a country that has long subsidized fossil production and nuclear power and encouraged greater consumption. We will explore the tools and perspectives that governments on different levels bring to the challenge and the ways various governmental bodies have seized that opportunity. We will move beyond consideration of broad policies to examine the specific policy challenges and opportunities faced by proponents of each of the major renewable energy technologies. This course provides a practicum experience. Students will be divided into small groups to work directly with policymakers at the California Energy Commission to study topics that the Commission identifies as being of critical importance. Based on this work, the teams will offer policy recommendations to the Commission.

**Sustainable Investment Fund (Haas)**

**COURSE NUMBER:** MBA292J.1

**SEMESTER:** Fall 2024

**COURSE TITLE:** Haas Sustainable Investment Fund (SIF)

**UNITS OF CREDIT:** 2

**INSTRUCTOR:** Anne Simpson and Art Baker

**EMAIL:** anne.simpson@berkeley.edu  artbaker@berkeley.edu

**PREREQUISITES:** Financial Information Analysis (FIA),

**CLASS FORMAT:** This is an experiential course with highly engaged student Principals making decisions on the Sustainable Investment Fund’s $4 million corpus and deliver
proceeds for impact-focused projects that serve the greater Haas community. Faculty will provide some instruction on integrating sustainable considerations into fundamental investment decisions, there will be guest speakers and treks to visit companies and fund managers, and the bulk of the work will be student led discovery on compelling, values aligned investments for the Fund’s short, medium and long term objectives. Initiative, commitment, and interest will be critical to success in this class. Real money with real implications for Haas are at stake.

Climate Change and Business Strategy (Haas)

**COURSE NUMBER:** EW MBA292T.1/MBA292T.1

**COURSE TITLE:** Climate Change and Business Strategy

*This course is dual-listed between the EW MBA and FT MBA programs.*

**UNITS OF CREDIT:** 3 units

**INSTRUCTOR:** Andrew Isaacs

**E-MAIL ADDRESS:** isaacs@berkeley.edu

**MEETING DAY(S)/TIME:** Mondays; 6:00-9:30 PM PT

**Privacy and Recording Notice**

**Sample Syllabus (FT MBA Spring 2023)**

**PREREQUISITE(S):** None

**CAREER FIELD:** This course is intended for students with an interest in how climate change is impacting business, and how business sustainability depends both on mitigating climate impacts and on adaptation to ongoing climate change. While the course does not shy from using scientific terms, the material is easily accessible, and no prior familiarity with climate science is assumed. We will examine a range of approaches to business sustainability in the context of a changing climate, the actions that business can take to improve the climate outlook, and the emergence of a climate-aware economy. Students considering a career in Sustainability will benefit from the deep understanding of climate-related business issues that this course is intended to provide.

Plant Futures Challenge Lab (Haas)

**COURSE NUMBER:** MBA292T.22

**COURSE TITLE:** Plant Futures Challenge Lab

**UNITS OF CREDIT:** 3 Units

**INSTRUCTOR:** Nina Guilbeault; Brittany Sartor
E-MAIL ADDRESS: ninagheihman@berkeley.edu ; brittanysartor@berkeley.edu

PREREQUISITE(S): MBAs enroll through OLR as part of Bidding or Add/Drop process

COURSE SYLLABUS: Copy of Fall 2023 Syllabus | Spring 2024 Course Flyer

CLASS FORMAT: Mix of virtual & in-person lecture and teamwork time. Must attend weekly meetings on Mondays from 2:00pm - 4:00pm PT and Final Showcase on April 29th from 12:00pm - 4:00pm PT.

REQUIRED READINGS: No required textbook. Readings posted on bCourses.

BASIS FOR FINAL GRADE: Quality of client deliverables and course assignments, attendance (lectures, team meetings, client meetings, and Final Showcase), participation, and peer evaluations.

CAREER FIELD: Interdisciplinary (Business, Public Health, Public Policy, Engineering, Environmental Science, etc)

ABSTRACT OF COURSE CONTENT AND OBJECTIVES:

The Plant Futures Challenge Lab is a special course that blends in-class learning with applied field experience. Top undergraduate and graduate students are paired on multidisciplinary teams to work with professional clients from leading food systems organizations to develop actionable solutions to present-day challenges in the plant-based food and agricultural sector. Students will be guided throughout the learning journey by the teaching team and their challenge partner mentors through a series of team meetings, lectures, and workshops and will learn and practice systems thinking and design, ethical leadership, and entrepreneurial agency.

Energy and Environmental Markets (Haas)

COURSE NUMBER: MBA 212.1

COURSE TITLE: Energy and Environmental Markets

UNITS OF CREDIT: 3 Units

INSTRUCTOR: Lucas Davis

E-MAIL ADDRESS: Feel free to contact me directly with questions, lwdavis@berkeley.edu

INFORMATION FOR NON-MBA STUDENTS: This class is not listed in the UC Berkeley Academic Guide but may be taken by non-MBA currently-enrolled UC Berkeley graduate students. Spring 2023, I will be offering the class in both our full-time and evening-weekend programs. See here for instructions on how to request a seat.
PREREQUISITE(S): MBA-level Microeconomics (MBA201A) or undergraduate intermediate microeconomics is required. This is a class about economics. We talk about supply and demand, competition, market power, producer and consumer surplus, and related topics. This class is not a good choice if you haven't taken at least a solid undergraduate microeconomics course.

COURSE SYLLABUS: A recent syllabus is available here.

CLASS FORMAT: Classes are highly interactive and feature a combination of thought questions and discussion, in-class exercises, daily indicators presented by class participants, and participation in the Electricity Strategy Game (ESG). The ESG is an electricity market simulation in which each team owns a portfolio of generation units and bids those units into an electricity market. Teams must develop strategies to deploy their assets while accounting for the cost structure of their portfolio, varying levels of hourly demand, carbon policy, and the strategies of other players. In order to allow time in class for this interactive learning, I have recorded a collection of screencast videos featuring my voice over slides. These videos cover much of the foundational material for the course.

CAREER FIELD: This course is relevant for anyone interested in energy and environmental economics. This includes those working or planning to work in the energy sector, but also those outside the energy sector, but in roles related to energy procurement, environmental compliance, sustainability, and climate. In addition to MBA students, the course draws graduate students from across campus including the Goldman School of Public Policy, the College of Engineering, the Rausser College of Natural Resources, Berkeley Law, and other departments bringing viewpoints from many different perspectives.

Cleantech to Market (Haas)

COURSE NUMBER: MBA 212A.1

COURSE TITLE: Cleantech to Market

UNITS OF CREDIT: 3 Units

INSTRUCTORs: Brian Steel, Ana Martinez, Bill Shelander, and Alex Luce

E-MAIL ADDRESS: Feel free to contact us directly with questions, bsteele@berkeley.edu and ana_martinez@berkeley.edu

PREREQUISITE(S): No prerequisites; however, Energy & Environmental Markets is helpful.

ENROLLMENT DETAILS: To ensure that C2M’s custom-built teams remain intact and can begin meaningful work on the first day of class, C2M DOES NOT ALLOW ADD/DROP. This is consistent with other client-/team-based courses at Haas.
CLASS FORMAT: Please note that this is a highly team-oriented class. Therefore, in-person class attendance is required on Tuesdays and Thursdays from 11am-12:30pm.

CLASS DESCRIPTION: C2M exists to help develop and inspire the next generation of climate tech leadership. C2M does this by creating and coaching interdisciplinary graduate student teams who help U.S. climate tech entrepreneurs bring promising climate tech innovations to market sooner and more effectively. Since its founding in 2008, more than 500 C2M students have helped to commercialize nearly 130 climate tech solutions, whose associated startups have gone on to raise almost $1 billion in follow-on funding.

Each year, C2M selects early-stage startups and forms interdisciplinary teams of four to six graduate students to work with them. These are the startups selected from across the country for this fall 2024 semester by a 33-person industry panel (including 22 C2M alumni, most of whom are PhDs):

- Ammobia - Cost-effective, clean ammonia production.
- Calectra - Low-cost electrification of high-temperature industrial heat via thermal storage.
- HidrogeniCs - Using methane to produce high-value carbon materials (e.g., graphene) and clean hydrogen.
- Oleo Sustainable Palm Oil Solutions - Deforestation free, carbon-neutral alternative to palm oil.

In the fall semester, C2M faculty (and coaches they arrange) teach and mentor the teams as each spends more than 800 hours providing critical commercialization support, which is focused on identifying the most viable initial markets, prospective customers and partners, optimal business models, funding sources, and related strategies.

At C2M’s annual summit in early December, $70,000 in MetLife Climate Solution Awards are presented to the startups supported by the top-performing teams. C2M-supported startups have gone on to raise nearly $1 billion in follow-on funding.

Climate: Politics, Finance and Infrastructure (Haas/Goldman)

SEMESTER: Fall 2024

Privacy and Recording Notice

COURSE NUMBER: MBA277.3

COURSE TITLE: Climate: Politics, Finance & Infrastructure

UNITS OF CREDIT: 2

INSTRUCTOR: Schaaf, Libby; Gordon, Kate

E-MAIL ADDRESS: khgordon@berkeley.edu
PREREQUISITE(S): No prior knowledge of climate change science, finance, or policy is required.

COURSE SYLLABUS: Draft syllabus available [HERE](#).

CLASS FORMAT: Combination of instructor-led discussions, readings, and guest speakers.

Instructors use a combination of academic papers, industry reports, news articles, podcasts, videos, and occasionally actual California-based cases, to provide a basis of knowledge on which the class can build responses to discussion questions. Students are required to read / watch / listen to the items listed under “Materials” on the syllabus. Items listed as “Recommended” are optional, and included for students who are interested in taking a deeper dive into particular subjects. In some cases, recommended materials may relate directly to study questions, offering information not fully captured in the required materials.

This course features guest speakers who are leaders in the fields of climate change science, policymaking, finance and investment. To ensure a vibrant discussion with these speakers, students are expected to come to class prepared with questions for our guest speakers in addition to responses to assigned study questions. Laptops are not allowed in class except as an approved accommodation. All classes will be taped with anytime access to all students enrolled in the class.

**Sustainable Impact and Climate Investing Landscape**

**CLASS DATES AND TIMES:**
Sundays
9:00 AM - 5:00 PM PT
Sept 29 & Oct 27

*Please note the unorthodox format of this course, which meets all day on two Sundays.*
*You must attend both sessions in their entirety in order to earn a passing grade. The course will not be recorded.*

PREREQUISITE(S): None

REQUIRED READINGS: Required and suggested reading will be included in the course materials.

INSTRUCTORS: Justina Lai, Rebekah Saul Butler
justina.lai@berkeley.edu; rsbutler@gratitudeairroad.com

This course is intended as an introduction to critical issues in the impact investing and sustainable finance fields. It is designed to provide students with an understanding of opportunities and challenges in various asset classes, discuss latest thinking on impact measurement, management and reporting, and introduce expert speakers from multiple disciplines working in the field today. Our objective is to provide students with working
knowledge on issues in the field and inspire further study in areas of particular interest. Climate and DEI lenses are centrally embedded in the landscape.

This course is intended for anyone who might be interested, now or later in their careers, in:

- Becoming an entrepreneur in an impact sector, whether for-profit or non-profit.
- Working in impact investing (including seed investing, impact VC/PE, debt, accelerators, real assets or public securities).
- Having the tools to develop entrepreneurial ecosystems centered on climate action and gender equity and racial justice.
- Working in sustainable investment (including developing impact investing strategies, constructing sustainable investment portfolios or engaging in sustainable active ownership with corporations).
- Working in impact sectors (climate, food, energy, environment, health, education, etc.) and wanting exposure to structuring and capital raising.
- Careers in corporate sustainability and intrapreneurship.
- Building an understanding of the essentials of the field, including learning the nuances of speaking the language of climate, impact, and sustainable investing.

**Climate Solutions Fund (Haas)**

COURSE NUMBER: EW MBA/MBA 292T.7

SEMESTER: Fall 2024

COURSE TITLE: Berkeley Climate Solutions Fund (CSF)

UNITS OF CREDIT: 3

INSTRUCTOR: Adair Morse, Jeep Kline, and Todd Evans

EMAIL: adair@berkeley.edu, jeep.kline@berkeley.edu, todd.evans@generatecapital.com

CLASS FORMAT: The Berkeley Climate Solutions Fund (CSF) will train students as investment managers in a multi-asset class investment fund, investing into climate solutions financing opportunities. The focus of the investments will be in the area of finance not traditionally taught as mainstream finance, but where there are dire needs for expertise, including such areas as public-private partnerships for federal or state programs, capital stacks for risk buffering and incorporation of advance purchase commitments, middle market expansion in the picks and shovels of the economy, and growth equity for technology solutions applied to production and logistics.

**Topics in Responsible Business: Brands and Sustainability**

Fall 2024, UGBA192T
Today, business success depends on more than financial results. Sustainability is a business imperative, and employees, customers and communities expect brands to embrace and stand up for values they share. Yet a quick look at most rankings reveals that few businesses that are known for their sustainability leadership are seen as brand leaders, and few top global brands are rated as sustainability leaders.

This course starts with the premise that it shouldn’t be this way. Today’s leaders recognize that their businesses can (and must!) succeed on all 3 fronts - financial, sustainability and brand - to secure their future viability. They also realize that the path to success is not a straight or short line - it’s a journey that includes many steps, some small, some larger, as well as some missteps.

Through current papers and articles (most of which are short, and all of which are in the Study.net reader), class discussions and guest speakers, we will explore examples of financial, sustainability and brand leadership, distill key their success factors and uncover guiding principles for achieving them. Students will also bring their own examples and experience, share in facilitating class discussions and apply key frameworks in evaluating real-world challenges at the intersection of finance, sustainability and brand.