

SPRING 2023 COURSE DESCRIPTIONS:

New MENV courses**Building Community Capacity (3cr)****ENVM 5067**[Natalie Ooi](#)

Assist partner communities who are looking to build community capacity through outdoor recreation. Students learn and apply best practices related to building community capital and trust, assessing community strengths, providing strategic planning and guidance, engaging diverse community stakeholders, developing successful partnerships and identifying relevant programs, partners and funding sources to assist with community economic development.

Note: Students will be selected through an application process to join this course.

001 (40995) – TTH, 11:30am-12:45am, SEEC C315**GHG Accounting & Carbon Management (3cr)****ENVM 6100**[Colette Crouse](#)

This course will introduce students to the fundamentals of greenhouse gas emissions accounting and management, including GHG inventory development, target-setting, reduction planning and reporting. It will cover GHG emissions scopes 1-3 and will review accounting standards such as the GHG Protocol, definitions of zero carbon and net zero, and discussion of globally recognized third party frameworks such as the Science-Based Targets Initiative. We will also discuss the carbon management hierarchy and issues of impact, transparency, and credibility, which will include the application of carbon offsets, RECs, and the role of carbon markets in mitigating climate change. A particular focus will be paid to practical knowledge, with students developing and analyzing a detailed, Excel-based inventory model, and data management framework. Students are strongly encouraged to have at least an intermediary working knowledge of Excel prior to beginning this course, including familiarity with formulas and functions such as Index Match, If Statements, Pivot Tables and charts.

001 (26983) – T 3:30pm-6:00pm, DUAN G131**Corporate Sustainability Reporting and Strategy (3cr)****ENVM 6100**[Debbie Huttner](#)

Private and public entities around the world are increasingly taking on sustainability as core value. Many are driven by genuine desire for positive change. Others do so out of perceived need from customers, stakeholders, or investors. As a result, the need to be able to use frameworks to develop strategies and communicate progress and impact has been paramount. This class will explore the frameworks and standards used to measure sustainability across different industry sectors, differentiate between “CSR” and “ESG,” and provide an investors perspective regarding which companies merit financial investment based on their sustainability performance. It will include a review of reporting standards such as GRI, CDP, GRESB, SASB, the process of conducting Materiality Assessments, and showcase how companies across the sustainability spectrum are developing enterprise-wide strategy and communicating their efforts.

004 (26464) – M, 4:05pm-6:35pm, SEEC N136**Climate and Energy Justice (3cr)****ENVM 6100**[Jorge Figueroa](#)

This course will explore the historical roots and current manifestations of environmental and climate injustice in Colorado and beyond. It will be grounded on practice: how to apply environmental and climate justice lenses and tools to address current urgent challenges & issues that cut across MENV’s 5 thematic tracks. Students will learn about the different roles and strategies that law, policy, equity and markets can play in addressing environmental and climate justice; and of the intersectionality of climate change mitigation and adaptation. Consistent application of analysis and strategies on real-world problems, and guest speakers from diverse backgrounds, fields and experiences will enrich and ground-truth this professional course.

007 (27025) – MW, 2:30pm-3:20pm, HUMN 190

Stakeholder Engagement: PPP (3cr)

ENVM 6100

[Colleen Scanlan Lyons](#)

The course will analyze and apply stakeholder engagement skills through a series of timely and pressing case studies and group projects. This course will be organized around MENV's 5 thematic tracks and will explore stakeholder issues, challenges, and opportunities (such as inclusivity and engagement; effective planning strategies and processes; resiliency and sustainability, etc.) to urgent social, environmental, and economic issues.

019 (41865) – TTH, 1:00pm-2:15pm, SEEC N128

Qualitative Research Methods (3cr)

ENVM 6100

[Damien Thompson](#)

Qualitative Research Methods is oriented to students who are likely to engage in research of any kind, formal or informal, that is concerned with people and the environment. It will cover the methods, employed in social sciences, that help us understand people's perceptions, beliefs, motivations, and actions around environmental issues.

021 (41879) – TTH, 10:00-11:15am, SEEC N126

Returning MENV courses

Environmental Public Finance (3cr)

ENVM 5004

[Karen Gebhardt](#)

Explores the impact of a variety of factors that may result in market failures, including public goods, externalities, information asymmetries and uncertainty, with a special focus on the environment and natural resources. Government policies as a mitigating policy tool for market failures impacting the environment are assessed.

001 (26300) – M, 4:05-6:35pm, SEEC N128

Scientific Basis of Environmental Change (3cr)

ENVM 5018

[Tracy Halward](#), [Timothy Seastedt](#), & [Joel Smith](#)

Provides an overview of the science that underlies some of the most complicated global environmental challenges we face today. These include topics such as climate change, air quality, land management, agriculture, biodiversity loss and conservation, as well as the underlying biogeochemical, hydrologic, and ecological processes that are critical for understanding the changing environment. Previously offered as a special topics course.

Three sections to choose from*:

001 (36003) – TTH, 10:00am-11:15am, SEEC N128

002 (36005) – TTH, 11:30am-12:45pm, SEEC N124

003 (36006) – TTH, 2:30pm-3:45pm, SEEC N124

**Please note, all sections should be similar in size. No exceptions on capacity changes. Each section permits a capacity of 32. No waitlists available.*

Food & Agriculture Policy in the United States (U.S. Food Policy) (3cr)

ENVM 5029

[Taber Ward](#)

This course introduces and examines food law and policy in the United States. It surveys the history of agriculture policy and food regulation in the US, as well as the overlapping mandates, authority, philosophies, and rules of the two federal agencies with the majority of the agricultural and food regulatory authority in the United States: the USDA & FDA. The course will investigate policies pertaining to agricultural production, environmental impacts of agriculture, food constituents, food labeling, safety, manufacturing, marketing and retail, as well as policies pertaining to nutrition guidance, public health, and assistance programs. State and local food policy innovations are explored in context. As we examine the network of policies that shape, players that influence, and laws that govern our food system, students will engage in thoughtful policy critiques and propose new ways of addressing contemporary issues with a focus on using policy mechanisms to enhance sustainability and equity through agriculture and food.

Notes about course design: This graduate-level course has been designed as an offering for students in the Sustainable Food Systems specialization of the Masters of the Environment (MENV) professional graduate degree program within the Environmental Studies department. MENV courses focus on applied knowledge and skills that support professional careers. In this case, we will be doing a broad survey of US Food Policy to provide future food system professionals with essential contextual knowledge for their work in the private, NGO, or public sectors. It may also be useful for students who wish to understand how to engage more effectively and directly in food system advocacy. This course has been designed specifically for non-law students and for those who do not intend to work as attorney advisors to food-focused clients. Our focus will be unique -- applied and practical, rather than theoretical or methodological -- but with a focus on policy options, rationale, and advocacy, not on regulatory drafting or representative work.

001 (24956) – W, 5:45pm-8:15pm, SEEC N124

Social Innovation and Sustainable Cities (3cr)

ENVM 5050

[William Shutkin](#)

Explore the emerging field of social innovation in the context of sustainable urban development; examine the core concepts, case studies and best practices that define it in areas such as carbon-neutral cities, impact investing/finance, modular housing, renewable energy, sustainable food production and urban mobility and develop our own social innovation ideas and models.

001 (26975) – T, 3:35pm-6:05pm, AERO N240

Humans, Environment, and Justice (3cr)

ENVM 5051

[Fatuma Emmad](#)

This course will examine the justice implications of the relationship between humans and the natural environment and in particular land use. We will take as a premise that all people have the right to access clean water, air and soil and to be free of contamination and hazardous pollution. We will look at current struggles and debates around topics of environmental quality and the processes that deny people access to basic resources.

001 (40997) – T, 5:00pm-7:30pm, HUMN 160

Transportation, Mobility & Sustainable Cities (3cr)

ENVM 5052

[Jean \(Robbins\) Sanson](#)

The transportation sector is undergoing a revolution, with the sharing economy, new mobility options and technology advances changing not just how we travel but changing the makeup of cities themselves. This course will prepare students to be knowledgeable and effective practitioners in this revolution. Current transportation topics and policy debates will range from how we design our streets, to managing congestion, and how we price and pay for it all.

001 (27209) – TH, 5:00pm-7:30pm, HUMN 160

Data Science and Visualization (3cr)

ENVM 5055

[Sophie McKee](#)

Explores ways of searching for and collecting relevant data and presents ways of cleaning, understanding, analyzing, and presenting such data. This class will require a basic understanding of mathematical concepts, statistics, and computer programming with a focus on the ability to use the R statistical programming language.

001 (40912) – T, 5:00pm-7:30pm, AERO 232

Global Consulting for Environmental Professionals (3cr)

ENVM 5059

[George Deriso](#)

Experience the professional rigors of consulting while learning how to navigate the global economy, international business cultures, economic conditions, and differences in business between the US and other countries. You will be part of a team of 3-5 students that will deliver a strategic solution to a real-world company working to solve a global social, sustainability and/or environmental problem.

001 (40981) – TH, 3:30pm-6:00pm, HALE 260

Governing for Sustainable Communities (3cr)

ENVM 5060

[Harmon Zuckerman](#)

To make a sustainable environment, we need to have legal and governmental structures and rules that foment -- and do not stymie -- sustainable practices. This course explores how we govern for sustainable outcomes at all levels of governance, with a focus on the local. We will also examine the role that courts play in determining the lawfulness of such governance. Students will have an opportunity to role-play as lawmakers.

001 (40996) – W, 5:45pm-8:15pm, AERO 232

B Impact Clinic (3cr)

ENVM 5061

[Mara Rose](#)

Evaluate sustainability and social impact performance for client companies using B Lab's B Impact Assessment (BIA). The BIA, a prerequisite for B Corp Certification, is used by over 100,000 businesses worldwide. Class sessions train students on the BIA, Certified B Corporations, and client engagement skills. Students offer consulting throughout the semester, culminating with the delivery of impact improvement recommendations.

**This will be a hybrid course. You will meet in person with the instructor two times per month, remotely with the instructor two times per month, on-site with the client two times per month, and with guest speakers or for site visits two times per month.*

Note: Students will be selected through an application process to join this course.

001 (41016) – TTH, 12:30-1:45pm

Zero Carbon Buildings and Cities (3cr)

ENVM 5062

[Josh Radoff](#)

The goal of nearly every green building project, corporate entity, or municipality is to reach net zero carbon or net zero energy. For most of these entities, this concept is an abstraction, and is not well understood. This class reviews the fundamentals of green building, from LEED to Energy Star, as well as other rating systems. It discusses the various definitions of Net Zero Energy and Carbon and the various certification programs that support it. It then helps develop an understanding of behind-the-meter renewables and battery storage and the financial case for their development. Lastly, it explores the range of policy levers and best practices for cities to reach their zero carbon goals – focusing on low carbon electricity supply, electrifying buildings, and electrifying and diversifying transportation options, while also addressing community equity, health, and resilience.

001 (41015) – MW, 2:30am-3:45pm, AERO N250

Agroecology (3cr)

ENVM 5063

[Damien Thompson](#)

Integrating a scientific framework, and ecological concepts with a concern social justice and cultural regeneration, this class introduces students to Agro-ecology as a discipline and a set of practices highlighting the multi-functionality of agricultural systems. We will also explore Agro-ecology as a social movement that aims to leverage traditional ecological knowledge to decolonize the multiple ecologies from seed to gut.

001 (40911) – TTH, 11:30am-12:45pm, SEEC N128

Environmental Stewardship: Practice and Law (3cr)

ENVM 5066

[Gregor MacGregor](#)

Addresses the context in which environmental laws have been created, as well as the customs and laws related to resilience, sustainability, stewardship, and honorable practice. It will concentrate on law as a means of market regulation, cultural expression, health, equity, and justice. Water and land law, property rights, wildlife and public land management, and other topics of historical and ongoing relevance will be discussed.

001 (40910) – T, 4:00pm-6:30pm, SEEC S125

Capstone Innovation Lab 2 (2cr)

ENVM 6002

[Taber Ward](#)

Providing hands-on, learning-by-doing experiences, while also providing client organizations with solutions to complex problems and useful products. Projects can take place in-residence with a client, when appropriate. Project ideas will be codeveloped by students and industry, government, or non-profit partners and will be guided and evaluated by a committee of ENVS faculty. Required for all MENV students.

Three sections to choose from*:

001 (26982) – F, 8:30am-10:10am, AERO N240

002 (36037) – F, 10:25am-12:15pm, AERO N240

003 (36038) – F, 12:30pm-2:10pm, AERO N240

**Please note, all sections should be similar in size. No exceptions on capacity changes. Each section permits a capacity of 35. No waitlists available.*

Responsible Business (3cr)

ENVM 6100

[Paul Hendricks & Joel Hartter](#)

The goal of this course is to provide students with the knowledge and tools to drive environmental and social responsibility in the business sector. The first part of the course will be focused on creating the case for a new business model by looking at market failures, the environmental crisis, and the critical role businesses play in being a force for good. The second part will explore the practical tools required to implement sustainable solutions throughout a businesses' value chain such as strategy development, supply chain management, philanthropy, and political advocacy. The course will draw heavily on case studies and real-world examples to help students create their own framework for holistic corporate impact.

002 (26459) – M, 5:45pm-8:15pm, SEEC N124

The World's Sustainable Energy Infrastructure (3cr)

ENVM 6100

[Joshua Radoff](#)

This course is intended to explore the way in which different countries around the world are approaching their transition to a carbon free economy, highlighting the technologies, policies, economics, and the emerging field of Just Transition that underlie each countries' approach. The classroom portion of the course will take place throughout the spring semester, meeting weekly for 1.25 hrs. It will set the stage for the travel portion of the trip to two or more countries in northern Europe, with the intent of witnessing some of the key zero carbon technology and infrastructure solutions. The in-country portion of the trip is anticipated to take place over a 10-12 day period (including travel), with a base in Copenhagen, Denmark and anticipated visits to Malmo, Sweden, and the surrounding area.

Note: Students will be selected through an application process to join this course.

008 (24464) – TTH, 1:00pm-2:15pm, SEEC N129

Consulting in Practice - Introduction to Consulting (3cr)

ENVM 6100

[Christine Ageton](#)

Learn the basics of consulting in this class. Great consultants are strategists and problem solvers. They know how to sort through complexity and uncertainty to assess the core issue that a client needs to address. In this class students will learn 101 skills such as: project definition, scoping, proposal writing, project management of deliverables, contracts, and relationship management.

014 (25996) – TH, 3:30pm-6:00pm, DUAN G131

Environmental Governance: Actors and Institutions (3cr)

ENVS 5702

[Cassandra Brooks](#)

Provides an examination of environmental governance issues across scales, from local to global. Focuses on foundational theory while critically examining empirical case studies of success and failure in managing common pool resources. Emphasizes understanding the role of diverse actors and institutions in driving environmental outcomes. Students will obtain practical tools and skills towards facilitating environmental sustainability of natural resources across scales.

001 (24297) – TTH, 10:00am-11:15am, SEEC N124

Reducing the Environmental Impact of Food Systems: Evidence-Based Solutions (3cr)

ENVS 6305

[Daniel Goldhamer](#)

Explores the evidence and ideas underlying some of the most important contemporary food system debates. We will ask: in enhancing the environmental sustainability of food systems, what do the data tell us about the roles that can be played by genetically engineered food, organic agriculture, local food systems, changes to animal agriculture, and reductions in food waste? Students will draw on peer-reviewed research to address the science, policy, and ethical dimensions of these topics.

001 (26073) – M, 5:45pm-8:15pm, MUEN E064