



SPRING 2027 COURSE DESCRIPTIONS:

New MENV course

Food & Climate (3cr)

ENVM 6100

[Maya Moore](#)

This course examines the two-way relationship between food systems and climate: how food systems contribute to climate change and how climate variability and long-term change affect food systems. Climate change affects the entire food system, with impacts extending beyond crop yields to nutritional quality and food security, pests and diseases, food safety and foodborne illness, storage and transportation, food prices, and blue food systems. The course explores how these impacts affect different food system actors and communities, how social and economic factors shape vulnerability and adaptive capacity, and how responses intersect with food and climate justice.

Through applied assignments, field visits, engagement with peer-reviewed research, and interaction with climate scientists, farmers, ranchers, and food systems researchers, students will analyze observed and projected climate impacts, assess food system vulnerability, and develop climate risk communications for specific audiences. Topics span climate impacts and vulnerability, mitigation and adaptation, and climate policy and action, drawing on IPCC assessments and exploring approaches to strengthen food system resilience. Examples from Colorado, the broader Western United States, and around the world will connect scientific evidence with local contexts and practical responses.

004 (37080), TTH, 2:30-3:45pm, SEEC N125

Returning MENV courses

Legislative Analysis, Writing, and Advocacy (3cr)

ENVM 5008

[Emmett Kaplan](#) & [Rebecca Siever](#)

This course will provide students with the skills and knowledge necessary to operate within the legal and policy framework of the United States. Students will learn how to locate and interpret federal and state statutes, municipal and county codes, agency policy documents, and judicial decisions at all levels. With this foundational knowledge established, the course then focuses on practical legislative drafting exercises, wherein students create clear and concise frameworks for the government and private parties to act while avoiding potential pitfalls in judicial interpretation. Formerly offered as a special topics course.

001 (37115) – W, 4:05-6:35pm, SEEC S125

Communicating for Sustainability & Impact (3cr)

ENVM 5022

[Meghan McCarroll](#)

Sustainability professionals interface with a broad range of audiences, making effective communication challenging. Good communication considers the needs, interests, and a priori knowledge of the audience. It weaves science and technical details into the art of storytelling. In this course, students will practice and improve their written, visual, and oral communication using audience analysis, storytelling, active listening, and other essential tools. By the end, each student will showcase their communication skills in a personal portfolio.

001 (37116) – TTH, 10:00-11:15am, SEEC S125

GIS for Sustainability Professionals (3cr)

ENVM 5023

[Meghan McCarroll](#)

Geographic Information Systems (GIS) are increasingly important for tackling environmental change and sustainability challenges. This introductory course in GIS will provide a broad foundation of spatial thinking and geo-technologies. We will consider spatial data, learn about real-world applications of GIS within the field of sustainability, and work through hands-on exercises in ArcGIS Online and QGIS to build confidence utilizing such software in your future careers. A personal laptop is required; prior GIS experience is not.

001 (37117) – TTH, 11:30-12:45pm, SEEC N126

Supply Chain Management for Food and Fiber (3cr)

ENVM 5028

Jackson Tomcheck

Provides students with an overview and in-depth, engaged analysis of food and fiber specific supply chain management. Using a mix of lecture, group projects, guest lectures students will learn supply chain fundamentals, the challenges facing supply chain managers and develop solutions.

001 (37113) – T, 6:40-9:15pm, SEEC N129

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

ENVM 5029

[Wendy Moscetti](#)

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 federal agencies with the majority of the agricultural and food regulatory authority in the United States: primarily the USDA as well as the FDA. The course covers civic infrastructure as well as laws that govern food and agricultural practices. The course will investigate policies pertaining to agricultural production, nutrition guidance, public health, food assistance programs, as well as environmental impacts of agriculture, food labeling, marketing and retail. State and local food policy innovations are explored in context. The course offers an in-depth examination of the history, process, and implementation of the Farm Bill as the most influential federal food and agriculture legislation.

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.

001 (37084) – W, 5:45-8:15pm, SEEC N126

Planning for Resilient Futures (3cr)

ENVM 5030

[Gretel Follingstad](#)

Planning for Community Resilience and Climate Action examines the relationships and connectivity between the natural environment, human society and the social ecological systems relevant to community resilience. The increasing demands of a globalizing economy, aging critical infrastructure, changing demographics, and the impacts of climate change increase concerns about the resilience of multiple scales of governance and the importance of social vulnerabilities.

001 (37112) – T, 4:00-6:30pm, SEEC N129, HY

Corporate Sustainability Frameworks, Reporting, and Strategy (3cr)

ENVM 5032

Jessica Kochik & Molly MacEachen

Explores frameworks and standards used to measure sustainability across different industry sectors and provides an investors perspective regarding which companies merit investment based on their sustainability performance. It will include a review of ISSB, GRI, CDP, SASB and TCFD, the process of conducting Materiality Assessments, the global regulatory landscape, and the role of ESG raters and rankers. It will explore how companies across the sustainability spectrum are developing enterprise-wide strategies and communicating their efforts.

001 (37118), TH, 4:00-6:30pm, SEEC N126

Leading Socio-Environmental Change (3cr)

URS Clinic (3cr)

ENVM 5040

[William Shutkin](#)

Seeks to bring the ideas and resources of supervised MENV students to bear on real-world, real-time resilience and sustainability challenges facing Colorado communities and organizations, with an emphasis on supporting under-served and at-risk populations and places. Through research, written reports, stakeholder interviews and other methods, MENV students gain critical skills and knowledge while providing valuable professional services.

001 (37103) – W, 4:05-6:35pm, SEEC N129

Renewable Energy Development and Project Finance (3cr)

ENVM 5042

Adam Knoff

Renewable Energy Development & Project Finance will present students with a sampling of the day-to-day work of clean energy industry professionals. The course will focus on the business of decarbonizing the energy sector and deploying clean and efficient energy technologies from several distinct perspectives, including (1) renewable energy project development; (2) corporate renewable energy procurement; and (3) energy solutions for the built environment.

001 (37085) – W, 4:05-6:35pm, SEEC N125

Global Intensive: Sustainable Cities, Sustainable Energy (3cr)

ENVM 5046

[William Shutkin](#)

This course is intended to explore the way in which different countries and cities around the world are approaching their transition to a sustainable and carbon free economy, highlighting the technologies, policies, economics, that underlie each country and city' approach. The classroom portion of the course will take place throughout the spring semester, meeting weekly for 1 hr. It will set the stage for the travel portion of the trip to a selected location, with the intent of witnessing some of the key urban

sustainability and zero carbon technology and infrastructure solutions. The international component of the trip is anticipated to take place over a 10-12 day period (including travel).

801 (37119) – TTH, 1:00-2:15pm, SEEC S125, Meets 1 day

Foundations of Environmental and Natural Resource Economics (3cr)

ENVM 5049

TBD

Introduces economic models, methods, and tools to analyze environmental and natural resource systems, their uses and issues, and policy solutions. Applies economic approaches to topics such as pollution, climate change, household waste and recycling, agriculture and food security, toxic substances and environmental justice, energy, forestry, fisheries, land, and water.

001 (37106), M, 6:45-9:15pm, SEEC N126

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. Previously offered as special topics course.

001 (37102), T 4:00-6:30pm, SEEC N125

Transportation, Mobility, & Sustainable Energy (3cr)

ENVM 5052

Melenie Sloan

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 (37101) – W, 6:45-9:15pm, SEEC N129

B Impact Clinic (3cr)

ENVM 5061

[Devon Bertram](#) & [Maria McDonald](#)

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. Weekly workshops 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.

801 (37107) – M, 4:05-6:35pm, SEEC N129

Zero Carbon Buildings (3cr)

ENVM 5062

Matt Jungclaue & Phil Kuehn

Review of the current standards for Net Zero Energy and Carbon (NZE and NZC). Understanding building efficiency metrics and methods, onsite renewable energy considerations, building electrification,

embodied carbon transportation impacts, and offsite renewable energy options. Integration of electric vehicle loads and conducting load shaping to minimize carbon impact on a time of use basis. City and utility policies and programs.

001 (37108) – TTH, 11:30-12:45pm, SEEC N 129

Agroecology (3cr)

ENVM 5063

[Maya Moore](#)

Agroecology is a science, a set of practices, and a social movement that seeks to transform food systems by applying ecological principles while addressing the social, cultural, and political dimensions of agriculture and food. Students will examine how ecological processes inform agricultural practices, how farmers draw on scientific research and traditional and Indigenous knowledge, and how social movements challenge dominant agricultural models and advance food sovereignty and social justice. The course also introduces participatory action research (PAR), an approach that engages farmers and communities in the co-creation of agroecological knowledge. Through readings, applied learning, conversations with agroecology researchers and practitioners, and a grant-writing assignment, students will explore diverse approaches to advancing agroecological research and practice.

001 (37109), TTH, 10:00-12:30pm, SEEC S103

Environmental Stewardship: Practice and Law (3cr)

ENVM 5066

[Matt Nadel](#)

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 (37110) – TH, 4:00-6:30pm, SEEC N128

Clinic: 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.

**By application only.*

801 (37111) – TTH, 1:00-2:15pm, SEEC N136

Facilitation for Change (3cr)

ENVM 5071

[Christine Ageton](#)

Learn how to guide groups toward agreement while increasing productivity and connection. Facilitation is the process of guiding a conversation with intention and skill toward the desired outcome. It is used for projects ranging from small-scale, brief gatherings to multi-year projects involving hundreds of people. In this class, we will learn the main types of facilitation and how they can be used effectively in varied professional and community settings. This class is open to anyone with an interest in facilitation

regardless of current skill.

001 (37114) – T, 8:30-9:45am, SEEC N128

Conservation and Sustainable Development in Brazil's Tropical Forests (3cr)

ENVM 5082

[Colleen Scanlan Lyons](#) & [Peter Newton](#)

Brazil's tropical forests sequester and store carbon, harbor biodiversity, and support the livelihoods of millions of forest-dependent people. This Global Intensive Education Abroad class takes 12 MENV students to Brazil for two weeks, with one week in each of the Amazon and Atlantic Forest biomes. We work closely with Brazilian graduate students and professors to visit communities and talk with stakeholders about their efforts to promote conservation and sustainable development in Brazil's forests.

800 (37120), W 10:00-12:30pm, SEEC S103

GHG Accounting & Carbon Management (3cr)

ENVM 5083

[Collette Crouse](#)

Introduces students to the fundamentals of greenhouse gas accounting and management, including market trends, GHG inventory development, data analysis, strategic planning, and carbon markets. A particular focus will be paid to practical knowledge, with students developing and analyzing a detailed, Excel-based inventory model.

001 (37121) – TH, 4:00-6:30pm, SEEC N125

The Water-Energy-Food Nexus (3cr)

ENVM 5084

Liz Voss

This course examines the concept, principles, and application of the Water-Energy-Food Nexus and their implications for sustainable development. The course explores contemporary and historical issues related to each of the water, energy, and food sectors, their interconnections, and opportunities for positively reinforcing policy decisions based on a nexus approach. Students will learn how the nexus concept developed in conjunction with ideas around international development; explore emerging technological solutions to nexus issues; and analyze specific problems and case studies of the nexus drawn from local, national, and international levels.

001 (37122), T, 4:00-6:30pm, SEEC N126

Capstone Innovation Lab 2 (1cr)

ENVM 6002

[Alice Reznickova](#)

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.

001 (37076) – F, 8:30-10:10 am, TBD

002 (37077) – F, 2:20-4:00 pm, TBD

003 (37078) – F, 12:30-2:10 pm, TBD

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

Carbon Dioxide Removal (CDR) (3cr)**ENVM 6100****Quinn Antus & Elias McCain Middleton**

How do we remove billions of tones of CO₂ from the atmosphere... and do it fairly, affordably, and fast enough to matter? This course plunges into the cutting edge of Carbon Dioxide Removal (CDR), from direct air capture to ocean-based innovations, mineralization, biomass, and soils. Through case studies, hands-on analysis, and conversations with leading innovators, students will grapple with the technical, political, and justice dimensions of CDR and leave prepared to lead in one of the most urgent and rapidly evolving frontiers of climate action.

001 (37075) – M 6:45-9:15pm, SEEC N129

Climate Action Planning for Cities; Designing for Delivery (3cr)**ENVM 6100**[Angela Fyfe](#)

Notwithstanding inaction at the federal level, local and regional climate initiatives continue to gain momentum, spurred by public support and clear economic benefits. To move beyond conventional planning, cities must adopt new logic and tools that bridge the gap between ambitious objectives and the practical realities of infrastructure, institutions, finance, and time.

This course presents the "Dual Lens of Transition Planning," the Shift Lens and Intervention Lens, through which cities design climate-transition projects that are community supported and investable because their delivery is visible and measurable from the start. This repeatable, systems-oriented approach fosters trust, improve coordination, and strengthens buy-in.

002 (37079) – M, 3:35-6:05pm, Ramaley N1B31