Department	Faculty Member	Research Description
		Attempting to understand why firms disclose environmental information, prior
		literature lands conflicting results. Proponents of legitimacy theory argue that
		environmental reporting is elusive and deceptive while advocates of economic
		theory believe that this type of disclosure – driven by investors need for
		information – is informative and value relevant. Using panel data analysis of
		firms' environmental disclosures over a 14-year period, Hani Tadros examines
		whether an association exists between these disclosures and firms'
		environmental performance. He tries to understand the determinants of firms'
		environmental reporting to better understand the motivation of firms to
		disclose such information.
Accounting	Hani Tadros	
		Samantha DiRosa's research investigates the intersections between art,
		activism, sustainability, environmental justice, and eco-spiritual practices. In
		2008, serving as a Sustainability Faculty Scholar, she worked to integrate
		dialogues on sustainability into the Studio Art foundations curriculum. This led
		to further pedagogical research, supported by a two-year fellowship from
		Elon's Center for Advancement of Teaching and Learning, to create more
		visible bridges between Art and Environmental Science, while broadening
		interdisciplinary dialogues on sustainability and the environment. Her latest
		research endeavors include the development of practices to help mitigate eco-
		anxiety and eco-grief. Additionally, her artwork, which has been shown
		extensively nationally and internationally, explores our disconnection from the
		natural world, environmental degradation, and our atomic legacy.
Art, Environmental Studies	Samantha DiRosa	

Department	Faculty Member	Research Description
		David Vandermast's research looks at the long-term dynamics of plant
		populations and communities in North Carolina. His research most often
		focuses on forest recovery from disease, plant population responses to
		changes in environmental conditions, invasive plant abundance in forest
		communities, secondary successional processes in forests of varying
		composition and structure, and the structure and composition of patches of
		old forest in the NC Piedmont called "forests of continuity". More recently, Dr.
		Vandermast has focused on the use of trees for carbon sequestration. He is a
		member of the Offset Network Advisory Committee, which focuses on
		promoting accessible and affordable carbon offset programs.
Biology	David Vandermast	
		Linda Niedziela's research interests include the toxicological assessment of
		human impact on aquatic environments. She has mentored many student
		projects looking at how toxic compounds released into the environment from
		industry, agriculture, or pharmaceutical use impact the survival, development
		or fertility of aquatic organisms. Understanding the toxicity of these
		contaminants can lead to the development of less toxic alternatives or stronger
		regulation of chemical use. Another aspect of her research is to use zebrafish
		as an aquatic model organism to investigate how these environmental
		compounds and pharmaceuticals cause harm and then apply that information
		to human health risk.
Biology	Linda Niedziela	
		Brant Touchette's research centers on wetland vegetation and the role climate
		change plays on wetland plants. This includes the impacts of elevated CO2
		levels and sea-level rise on coastal marshes and the consequences of
		decreased precipitation on freshwater wetlands. Research also includes
		restoration of rare ecosystems such as coastal maritime swamps and lotic
		wetlands used by endangered species. He is also on the editorial board for the
		peer review journal Aquatic Biology.
Biology, Environmental Studies	Brant Touchette	

Department	Faculty Member	Research Description
Riology Environmental Studies	Mike Kingston	Mike Kingston's research focuses on the ecology of microscopic algae that live in sand beaches, estuaries, and on the banks of freshwater streams. A second area of research focuses on community ecology and the effects of climate change, introduced species, and predation on the colonization of subtidal hard substrates by invertebrate marine animals.
Biology, Environmental Studies	Mike Kingston	Dr. Rizzuto's research lab focuses on the role of chemical species in various atmospheric and environmental processes. These projects include: 1. The study of microscopic atmospheric water droplets and how their chemical composition impacts cloud formation and evaporation rates. This information plays an important role in furthering our understanding of oceanic and atmospheric chemistry, which in turn can be used to develop more accurate climate models. 2. The study of carbonic acid (the centerpiece of the global carbon cycle) as it pertains to ocean acidification, nanoparticle sequestration and carbonation, and increased atmospheric carbon dioxide levels. 3. The study of aerosolized nitrous acid (HONO) decomposition and its impacts on NOx chemistry and the global nitrogen cycle. HONO is a precursor to a number of radical species that significantly impact atmospheric chemistry, in particular ozone depletion. Understanding the kinetics associated with HONO reactions will inform on how best to protect our ozone layer.
Chemistry	Anthony Rizzuto	

Department	Faculty Member	Research Description
		In a world with limited supplies of crude oil there is a growing need for
		alternatives methods of accessing the products responsible for the modern
		quality of life desired by society. Currently the majority of consumer products
		(e.g., medicines, plastics, electronics, etc.) are produced from non-sustainable
		petroleum-derived substances. Jen Dabrowski's research utilizes the principles
		of organometallic chemistry to design and apply more Earth-abundant catalysts
		to solve challenges in the creation of feedstocks for consumer products from
		biorenewable resources. Current efforts have focused on sugars as a rich scaffold for diversification.
		Scandid for diversification.
Chemistry	Jen Dabrowski	
		Dr. Clar's Research group focuses on the release and transformation of trace
		metals in both natural and engineered environmental systems. Since the
		industrial revolution, economic investments in research and development for
		new technologies has far outweighed the amount allotted to downstream environmental implications and human health concerns. As a result,
		environmental scientists are consistently put in the role of remediation and
		mitigation, as opposed to prevention. The goal of our research group is to
		understand how anthropogenic activity alters the cycling of trace metals in the
		environment, with special attention paid to changes in chemical speciation.
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Chemistry	Justin Clar	

Department	Faculty Member	Research Description
		Karl Sienerth's research involves the synthesis of new compounds that have
		the potential to help humans mimic photosynthesis. Students in his research
		group collaborate to develop methods for making the compounds in the lab,
		and then use a wide range of instrumental methods to analyze the compounds.
		Once the basic structures of the compounds are confirmed, they are tested to
		see if they can make the conversion of carbon dioxide to other useful
		compounds more efficient. Not only does each compound studied have the
		potential to serve as a CO2 conversion catalyst, the research as a whole adds to
		the broader body of knowledge about CO2 chemistry, bringing humankind
		closer to a day when we can develop a complete carbon cycle to minimize the
		effect our fuel usage has on the planet.
Chemistry	Karl Sienerth	
		As a filmmaker, Doug Kass' scholarship includes film projects of various sorts.
		From 2018-2020 he made public service announcements for the United
		Nations AIDS outreach organization, UNAIDS. These projects addressed global
		issues of health disparity.
Cinema & Television Arts	Doug Kass	
		Brian Walsh's current research interest involves examining the present state of
		the funeral industry, and how its emphasis on 'traditional' means of interment
		cause soil, water and air contamination, as well as waste tremendous amounts
		of natural resources. Walsh explores alternative funerary rites that minimize
		environmental impact and aim to fundamentally change care of the deceased
		in America. He teaches in the iMedia graduate program.
Communication Design	Brian Walsh	

Department	Faculty Member	Research Description
		Brooks Depro is an environmental economist and examines the relationship between housing choices, environmental health risks, and environmental justice. His work in this area has been published in the Journal of the Association of Environmental and Resource Economists, Land Economics, and the edited volume of The Political Economy of Environmental Justice. His principles of economics classes cover environmental topics, and he also teaches advanced courses, such as Markets and Environmental Justice and the Moral Limits of Markets. He teaches in the MBA program.
Economics	Brooks Depro	
		Casey DiRienzo focuses on the economic and business country-level factors that contribute to a country's overall ability to meet environmental performance measures. During the 2000 Millennium Summit and 2005 World Summit, government and policy leaders pledged their countries' support for environmental sustainability and their commitment to meet the environmental goals established in these summits. Her research has focused on the economic, business and socio-economic variables that have led some countries to be more successful in meeting these goals than others. A recent publication explores the role of women and corrupt practices on environmental outcomes.
Economics	Casey DiRienzo	
		Steve DeLoach has published papers and mentored numerous student theses dealing with various aspects of sustainability. Much of this work has examined the role of international trade on environmental and working conditions across countries. His most recent work has examined the impact of access to microfinance on household decision-making in developing countries.
Economics	Steve DeLoach	

Department	Faculty Member	Research Description
		Tina Das focuses on the economic and business country-level factors that
		contribute to a country's overall ability to meet environmental performance
		measures. During the 2000 Millennium Summit and 2005 World Summit,
		government and policy leaders pledged their countries' support for
		environmental sustainability and their commitment to meet the environmental
		goals established in these summits. Her research has focused on the
		economic, business and socio-economic variables that have led some countries
		to be more successful in meeting these goals than others. A recent publication
		explores the role of women and corrupt practices on environmental outcomes.
Economics	Tina Das	
		Dr. Katie Baker's research focuses on mathematics teaching and learning that
		centers student thinking and students' contributions. Her work considers if and
		how learners get access to high-quality mathematics education and what this
		access affords. Mathematical access especially aligns to the United Nations
		Sustainable Development Goal 4 of Quality Education, but impacts many of the
		other goals through the problem-solving and critical thinking skills it affords
		learners. In order to consider and reflect upon various ways to learn
		mathematics, she collaborates with Dr. Scott Morrison around teaching and
		learning mathematics outside and supports undergraduates researchers in
		their pursuits of expanding the creativity and richness of mathematics instruction that also fosters a connectedness to nature.
		instruction that also losters a connecteuriess to nature.
Education 9 Walls are	Katia Dalas	
Education & Wellness	Katie Baker	

Department	Faculty Member	Research Description
		Scott Morrison's research is focused on ecologically minded teachers and
		everyday environmental education. Ecologically minded teachers are not
		necessarily trained in environmental education or required to integrate
		environmental issues into their classrooms and curriculum, yet they do so
		because of their values and beliefs. He has written about the content and
		pedagogy of ecologically minded teachers (Morrison, 2018) as well as the
		responses of seven teachers to a professional development experience on eco-
		justice education (Morrison, 2018). He also mentors undergraduate research in
		environmental education. With Samantha Friedman '18, he published an article
		on the effects of being in nature on autistic elementary students and their
		special education teachers (Friedman & Morrison, 2021). With Abigail Decker
		'21, he published an article on the perceptions that nature-based educators
		have on the role of gender in their work with children (Decker & Morrison,
		2021). He teaches an environmental education course outside in a forest
		classroom, a garden-based learning course in partnership with two elementary
		schools, and an interdisciplinary capstone course on nature awareness, also in a forest classroom.
		a forest classificati.
Education & Wellness	Scott Morrison	
		Cassie Kircher is a nature writer, who writes about Alaska's Kenai Peninsula,
		Wisconsin's lake country, and her seven years working and living as a park
		ranger in Colorado's Rocky Mountain National Park. Her first collection of
		essays, Far Flung: Improvisations on National Parks, Driving to Russia, Not
		Marrying a Ranger, the Language of Heartbreak, and Other Natural Disasters,
		was published in spring 2019 by West Virginia University Press. Kircher is
		currently working on her observations and experiences with the absence of
		race in national parks.
English	Cassie Kircher	

Department	Faculty Member	Research Description
		Dan Burns' sustainability-related research on the emergent literary subgenre of
		"cli-fi,"—short for speculative fictions of environmental crisis, climate change,
		and ecocatastrophe—was presented at two comparative literature
		conferences in 2013 and 2018. The first, a paper entitled "Topography,
		Topology, Totality: Narrativizing Scale in the Novels of Joseph McElroy," was
		presented at the American Comparative Literature Association Conference
		(ACLA), University of Toronto. The second, a paper entitled "Secret History as
		Subterraneity: Excavating Chris Abani's Las Vegas," was delivered at the annual
		meeting of the Society for the Study of the Multi-Ethnic Literature of the
		United States (MELUS), University of Nevada-Las Vegas.
English	Dan Burns	
0	24245	Amanda Chunco's primary research interest centers on integrating field studies
		with geographic models to aid the conservation of rare and endangered
		species. Dr. Chunco's work focuses on the impact of human activity
		(particularly climate change and land-use) on the distribution and abundance of
		wildlife. She works primarily with mammals and amphibians, but the general
		methodology she uses is applicable to the conservation of biodiversity as a
		whole.
Environmental Studies	Amanda Chunco	
		Kelsey Bitting has been involved since the fall of 2019 in a cross-institutional
		effort to gather energy and momentum toward sustainability at institutions of
		higher education via conference presentations at the AAC&U General
		Education and Assessment meeting, the Earth Educator's Rendezvous
		conference, and a webinar for the POD Network's Earth-Centered Special
		Interest Group. Collaborators include Chelsie Romulo (University of Northern
		Colorado), Rob Turner (University of Washington, Bothell), and Scott Werts (Winthrop University).
Environmental Studies	Kelsey Bitting	

Department	Faculty Member	Research Description
		Robert Charest's research and practice involve community oriented design build projects, including innovative urban structures, micro housing and interior product design. With community partnerships, Professor Charest offers students hands-on experience while participating in inner city revitalization. His scholarship and involves responsible design and stewardship towards the environment and includes activities within the framework of engaged and applied scholarship.
Environmental Studies	Robert Charest	
	industric cindicate	Janet MacFall's primary research interest is in soil ecology, with a focus on the role of roots and the microbial community in soil processes. This is especially relevant to sustainability because these soil organisms are responsible for nutrient cycling/retention/conversion in soil. They affect the ability of soil to support plant growth (food and fiber production) and for soil/vegetation to regulate contaminants moving with water flow. Understanding the regulation of materials in surface and ground waters by soil communities is essential for management of clean surface waters. Clean water is critical for drinking, recreation, agriculture, commerce and ecological integrity. Again, this is relevant to principles of sustainability.
Environmental Studies, Biology	Janet MacFall	
		Adam Aiken's research has studied how investor ideology affects ESG investment decisions using the equity and mutual fund holdings of the members of the U.S. Congress. This work was published in Management Science (https://pubsonline.informs.org/doi/abs/10.1287/mnsc.2018.3175). His recent interests include the inherent measurement issues in ESG firm ratings and how investment managers learn about and weight the different ESG choices of firms. He teaches in the MBA program.
Finance	Adam Aiken	

Department	Faculty Member	Research Description
		Raj Gupta is developing a pipeline of ethics and sustainability research linked to
		his areas of expertise in finance and business administration. His ongoing and
		recent work include empirical studies of financial performance and value
		creation looking at the competitive advantage of sustainable companies, both
		domestic and global. His past work includes studying linkages between the
		Dow Jones Sustainability Index (DJSI) and other broadly-based financial indices.
		He teaches in both undergraduate and graduate business programs.
Finance	Raj Gupta	
		Honglin Xiao's research focuses on understanding the interactions of the
		societies, economies, governments and the environment, with separate
		research in China and the Piedmont region, in order to understand the driving
		forces of land-use change, develop diagnostic models of cover change and
		produce integrated models for future sustainable land use and environmental
		restoration. The study of land use land cover change is central to the study of
		global environmental change, ecosystem degradation and biodiversity loss.
History & Geography	Honglin Xiao	
		One of Ryan Kirk's research topics is water management in the Piedmont
		region. With expanding development, growing populations and increasing
		frequency of drought cycles in this region, sustainable water management is
		vital for future growth planning. His research focuses on the effects of
		development on water quality in Piedmont communities. Another research
		topic involves mapping and modeling land use and land ownership patterns in
		the Piedmont and Appalachian regions. Understanding the environmental
		legacies of past land use and modeling scenarios of future land use help us
		understand the extent and consequences of land owner choices.
History & Geography, Environmental Studies	Ryan Kirk	

Department	Faculty Member	Research Description
		During the 2020-2021 and 2021-2022 academic years, Caroleen Dineen's research has focused on legislative approaches to addressing nutrient pollution's impact on harmful algal bloom (HAB) proliferation. HABs can poison aquatic life, cause lethal oxygen depletion in the aquatic ecosystem, and create an aquatic "dead zone" incapable of sustaining plant or animal life. HABs also may create serious health issues and negatively impact recreational and commercial aquatic uses. Nutrient pollution results from a variety of sources, including fertilizer application, animal waste, stormwater runoff, and sewage treatment facilities. The research explores various nutrient pollution legislative initiatives and analyzes their feasibility and efficacy.
Law	Caroleen Dineen	
		Vanessa Zboreak researches state-level regulatory science to determine the best way to assess the validity of environmental and economic data in rulemaking. Much of the work is focused on the use (or non-use) of long-range predictions on climate change in rulemaking, and the use of non-economic community valuation in cost benefit analysis for rules about land use and development.
Law	Vanessa Zboreak	

Department	Faculty Member	Research Description
Department	Faculty Member	From 2014-2018, Brittany Mercado led a large-scale data collection sponsored by Korn Ferry that involved eight academic research teams. They investigated personality and work behaviors in the U.S., Germany, South Korea, Japan, China, Mexico, and South Africa. Specifically relating to sustainable development, they assessed employees' green work behaviors, employees' behaviors that are linked with and contribute to environmental sustainability. These include efforts to conserve and recycle, for example, in the course of daily work. The study examines individual-level factors, such as personality and cognitive ability, that can be used to predict engagement in these desirable employee behaviors. She continues to work with this dataset and team on projects related to sustainability. They are supporting the corporate sponsor (an executive search firm) as they attempt to increase individual-level green work behaviors, and the team is preparing manuscripts to submit to a
Management & Entrepreneurship	Brittany Mercado	Christy Benson teaches business law and ethics. Her research focuses on international trade and sustainable development. Her recent work includes an empirical study of financial performance and value creation, looking at the competitive advantage of sustainable companies. She practiced law for 10 years with major law firms in Washington, DC, specializing in international trade and transactions. She served in the Rules Division of the WTO Secretariat in Geneva in 2000, has advised numerous foreign government ministries in FTA negotiations and assisted a wide range of multinational clients on trade matters.
Management & Entrepreneurship	Christy Benson	

Department	Faculty Member	Research Description
		Elena Kennedy's research focuses on early stage decision making in social enterprises—organizations that combine business practices and the pursuit of a social and/or environmental mission—and how those decisions affect the organization's ability to achieve their mission to create impact. She has examined the role of legal structure on social enterprise survivability, governance practices to ensure the protection of organization's mission, the positioning of the beneficiary and its effects on the enterprise's ability to scale, measure impact, and the impact the organization has on it's individual beneficiaries, and most recently how locally oriented entrepreneurs can cooperate to develop entrepreneurial communities that drive economic development in their local area. She teaches in the MBA program.
Management & Entrepreneurship	Elena Kennedy	Rosey Bao's current research focuses on the antecedents/predictors of corporate social responsibility (CSR) by exploring the specific firm level corporate governance conditions under which firms are likely to behave in socially responsible ways. Using a sample of firms across 26 different countries, the study examines and teases out the moderating effects of country level institutions on the relationship between firm level governance and CSR. It suggests that the relationship between firm level governance mechanisms such as insider and institutional ownership and CSR is moderated by country level institutions such as the presence of minority shareholder protection and regulatory quality.
Management & Entrepreneurship	Rosey Bao	

Department	Faculty Member	Research Description
		Carri Reisdorf focuses on corporate social responsibility and environmental sustainability, in particular how these concepts are influenced by culture, consumer perceptions and identification. Some of Dr. Reisdorf's recent projects look at how green firm-specific advantages can lead to both higher financial and environmental performance, as well as how formal and informal pressures are causing firms to engage in social responsible practices around the world.
Marketing & International Business	Carri Reisdorf	
		Lauren Guilmette's research relates to sustainability primarily through an ecofeminist lens, with research into the late feminist Teresa Brennan and her unfinished work on the terrors of globalization. She has three peer-reviewed articles on Brennan and another forthcoming, and is currently drafting an article specifically on Brennan's ecofeminist politics of the local. Sustainability also surfaces in her work in critical disability studies and feminist bioethics, with questions of environmental racism and the differential distribution of precarity via exposure to toxins.
Philosophy	Lauren Guilmette	
		Jonathan Su is developing a lens-free holographic imaging system for use in water quality measurement. He and his students are currently using it to try to create an automated system which can detect cyanobacteria in local water systems. These cyanobacteria can release toxic cyanotoxins that can pose a danger to humans and animals. His other work also focuses on fluid mechanics, mass transport, and drug delivery systems.
Physics & Engineering	Jonathan Su	

Department	Faculty Member	Research Description
		Aaron Sparks studies the politics of environmental policies. This is done mainly through the lens of political behavior, that is, how do people think about the environment, and how does that impact their environmentally related behavior from organizing to carrying a reusable water bottle. With Elon students, Aaron Sparks is also working to understand how climate organizations build political power. He is also interested in improving measures of sustainability knowledge.
Political Science & Policy Studies	Aaron Sparks	
		Working with undergraduate researchers, Dr. Maureen Vandermaas-Peeler studies the development of young children's inquiry and discovery through joint participation with peers and adults in authentic, engaging activities in outdoor environments. Findings contribute to the growing momentum in programs and schools to make spending time in natural outdoor settings a priority for young children to foster developing skills and knowledge and to help ensure a future generation of environmental stewards.
Psychology	Maureen Vandermaas-Peeler	
Religious Studies	Geoffrey Claussen	One of Geoffrey Claussen's research interests is Jewish approaches to nonhuman animals and the environment. He is currently working on a research project that explores the diversity of Jewish approaches to environmental ethics.

Department	Faculty Member	Research Description
		Toddie Peters' research on abortion and reproductive justice is focused on
		addressing the disproportionate impact of restrictive abortion policies on poor
		women, young women, and women and color with particular attention to
		intersecting forms of oppression and structural violence based on gender and
		economic status. Her scholarship on economic and environmental ethics is
		focused on exploring the development of a solidarity economy and shifting
		collective worldviews/ethical underpinnings of alternative economic structures
		that focus on the common good and the well-being of the entire human and
		natural world.
Deligious Studios	Toddie Peters	
Religious Studies	Toddle Peters	Rissa Trachman has conducted archaeological research in Belize for over 20
		years. Her research is conducted on a 250,000 acre conservation and
		management area and necessarily involves perspectives of environmental
		impact both of ancient Maya inhabitants and the modern impact of
		archaeology on its surroundings. The ancient Maya interaction with the
		environment was substantial and underestimated. Her field research project in
		Belize, the Dos Hombres Archaeological Project explores these interactions and
		their subsequent social impacts as reflected in her recent publications.
Sociology & Anthropology	Rissa Trachman	
		Dr. Robert T. Perdue, Assistant Professor of Sociology, is an environmental
		sociologist who examines the social, economic and ecological impacts of
		natural resource extraction. His current work focuses on prison construction as
		an economic development strategy following resource decline. A good
		overview of this work can be found in Environmental Justice, entitled "Linking
		Environmental and Criminal Injustice: The Mining to Prison Pipeline in Central
		Appalachia."
Sociology & Anthropology	Robert Perdue	

Department	Faculty Member	Research Description
		Young Do Kim's current research interest lies in the area of sustainability in sport. His ongoing research projects focus on formulating conceptual frameworks that illustrate key drivers and outcomes of sport organizations' environmental initiatives and empirically examining how sport teams, as leverageable assets, can influence the quality of local communities and sustainable behavior change through their environmentally responsible initiatives. In general, his research seeks to help sport organizations implement strategic environmental initiatives and continue their investment in the sport greening movement for socially and environmentally healthier communities.
Sport Management	Young Do Kim	
		Barbara Gaither researches marketplace advocacy, a form of advertising and public relations used by corporations and industries to generate acceptance for industry-related issues, particularly those involving environmental and/or health risks. Gaither explores the implications of this form of advocacy for industry, environmental efforts and public policy. Gaither also researches public response to corporate social responsibility.
Strategic Communications	Barbara Gaither	