College of the Atlantic Sustainable Course Inventory

	Course Number	Level	Course Name	Sustainability Focused	Includes Sustainability
AD	4013	MA	Activating Spaces: Installation Art		
HS	5010	А	Advanced Composition		
HS	5032	A	Advanced Food Policy	1	
system Food Si the role multi-ye attend r The CF agencie people. dispute: do not p Student particip: will be i Enrollm	decision-mal ecurity (CFS) of fisheries a ear program of related session S is the preme es come toge Students wi s over food s oblan to attend ts will be eval ation either in ntegrated wittent in Powe	king at an) in Rome and aquac of work, pro- ons and si nier place ther to dis ill gain a d ystem dec d the CFS luated bas in the CFS th and req r & Gover	ontemporary and historical strategies for addressing hunger, foo advanced level. It will help to prepare students to participate in by exploring in depth the topics and issues that will be on the ag sulture in food security. Students also will be expected to track of inciples for responsible agricultural investment or another of the de-events at the CFS. where various actors from civil society, business, and governme scuss practices and policies that affect access to food and water leeper understanding of this contested space and its context witt cision-making. While the course will be oriented to this year's C in Rome to learn more about food policy and decision-making. sed on regular essays through the term, contributions to class di OR close reading and reporting on related ethnographies or su uires co-enrollment in Cities: Past, Present & Future for studen nance is STRONGLY ADVISED for students who plan to attend n an Independent Study as their third credit.	the 2014 Committe genda this year: fo communications, m e CFS process work ental and intergover diets and livelihood hin historical and co FS, students may e iscussion and exerce pplemental reading ts who plan to trave	ee on World od waste and onitoring, kstreams, and to mmental ods of millions of ontemporary enroll even if the cises, and . This course el to Rome.
	5013	A	Advanced Projects: Art Practice and Concepts		
AD	1	A A	Advanced Projects: Art Practice and Concepts Advanced Seminar in Ecological Economics	1	
AD HS This se as a pa We will to explo (post-no substitu studies) degrow institutio havens	5013 5026 5026 seminar explo aradigmatic a use the first a pre topics of so ormal science ition,critical n),energy and th),measurer onal arranger), community	A pres select approach several we student int e, transdis iatural cap resource ment issue ments (ad		nomics of sustain study of economi e will use the remain include; methodolog technological pess of (consumption, hap y, resiliency, stainable Economic t (embodied trade,	ic activity. Inder of the term gical issues simism, capital opiness c Welfare), pollution
AD HS This se as a pa We will to explo (post-no substitu studies) degrow institution	5013 5026 5026 seminar explo aradigmatic a use the first a pre topics of so ormal science ition,critical n),energy and th),measurer onal arranger), community	A pres select approach several we student int e, transdis iatural cap resource ment issue ments (ad	Advanced Seminar in Ecological Economics eted themes in ecological economics, which is both the economic distinct from the mainstream neoclassical approach to the eeks of the term to define and outline ecological economics. We terest, focusing on three to five major themes; possible themes i sciplinarity), biophysical constraints to economic growth (entropy, bital, resource peaks), socio cultural impacts of economic growth flow analysis (entropy), system dynamics (steady state economy es (growth versus development, ecological footprint, Index of Su aptations of ideas from Douglass North), trade and developmen bility, philosophical issues (Buddhist economics, homo economic	nomics of sustain study of economi e will use the remain include; methodolog technological pess of (consumption, hap y, resiliency, stainable Economic t (embodied trade,	ic activity. Inder of the term gical issues simism, capital opiness c Welfare), pollution

			an literature - from its origins in the slave narrative to the presen pact of slavery and race consciousness on literary form and pov		e of America's
Douglas		cobs,Pauli	ys, poems, short stories, and novels of some of the following au ine Hopkins,Langston Hughes,Richard Wright,Zora Neale Hurst		
	Γ	1		1	
ES	3010	Μ	Agroecology	1	
The glo	bal demand	for food	and fiber will continue to increase well into the next centur	у.	
increasi		erty? In thi	produced? Will production be at the cost of soil loss, water con is course, we examine the fundamental principles and practices s on crops.		
social, a	nd ecologica	al criteria f	es and current research on conventional and alternative agricult for a critique of current agricultural practices in the United States at and analysis of new farming systems.		
Evaluati	ons are base	ed on two	exams, class presentations, participation in a conference on po	tato production, and	a final paper.
AD	4021	MA	Analog Photography: B&W		
AD ES	4021 4040	MA	Analog Photography: B&W Animal Behaviour		
	-				1
ES AD	4040 3010	MA M	Animal Behaviour	e design process.	1
ES AD In this c We exar of archit	4040 3010 design studi mine various ectural struc I problems. T	MA M o studen aspects o tures and	Animal Behaviour Architectural Design Studio	rhythm, and form. B pply these principles	Basic principles s in solving
ES AD In this c We exar of archit practical dimensio	4040 3010 design studi mine various ectural struc l problems. T ons.	MA M o studen aspects o tures and They are e	Animal Behaviour Architectural Design Studio ts are introduced to the field of architectural design and the of this functional art including scale, texture, volume, void, light, a brief historical overview are presented. Students attempt to a	rhythm, and form. B pply these principles	Basic principles s in solving
ES AD In this c We exar of archit practical dimensio	4040 3010 design studi mine various ectural struc l problems. T ons.	MA M o studen aspects o tures and They are e	Animal Behaviour Architectural Design Studio ts are introduced to the field of architectural design and the of this functional art including scale, texture, volume, void, light, a brief historical overview are presented. Students attempt to a expected to develop basic architectural drafting skills to represented	rhythm, and form. B pply these principles	Basic principles s in solving
ES AD In this c We exar of archit practical dimensio	4040 3010 design studi mine various ectural struc l problems. T ons.	MA M o studen aspects o tures and They are e	Animal Behaviour Architectural Design Studio ts are introduced to the field of architectural design and the of this functional art including scale, texture, volume, void, light, a brief historical overview are presented. Students attempt to a expected to develop basic architectural drafting skills to represented	rhythm, and form. B pply these principles	Basic principles s in solving
ES AD In this c We exar of architi practical dimension The cou	4040 3010 design studi mine various ectural struc l problems. T ons. rse includes	MA M o studen aspects of tures and They are e model bu	Animal Behaviour Architectural Design Studio ts are introduced to the field of architectural design and the of this functional art including scale, texture, volume, void, light, a brief historical overview are presented. Students attempt to a expected to develop basic architectural drafting skills to represent ilding skills and an actual design project.	rhythm, and form. B pply these principles	Basic principles s in solving
ES AD In this c We exar of archit practical dimension The cou	4040 3010 design studi mine various ectural struc problems. T ons. rse includes 5014	MA M o studen aspects of tures and they are e model bu	Animal Behaviour Architectural Design Studio ts are introduced to the field of architectural design and the of this functional art including scale, texture, volume, void, light, a brief historical overview are presented. Students attempt to a expected to develop basic architectural drafting skills to represent ilding skills and an actual design project. Austen, Bronte, Eliot	rhythm, and form. B pply these principles	Basic principles s in solving

ES	4022	MA	Biogeography		1
been res and time place in behave why are some sp than oth as the e	sponding to a e and is conc the past and in the future there so ma becies show ers? How ha xtinction of s	an endless erned with are takin under a g ny differen extremely we these pecies? E	re is only a snapshot of a constantly varying assortment of plant s sequence of biotic and abiotic change. Biogeography is the st h the analysis and explanation of patterns of distribution, both lo g place today. Biogeography is also a predictive science enabli iven set of circumstances. As students of biogeography we will nt species of animals and plants? Why are some species so con local distributions while others are cosmopolitan? Why are som unique patterns of distribution come about? What are the factor Evaluations are based on class participation, bi-weekly presenta and its presentation.	udy of plants and ar ocal and global, that ng us to predict how attempt to tackle qu mmon, others so rar ne parts of the world s involved in the even	himals in space have taken / biota might lestions such as re? Why do I more diverse polution as well
ES	1010	I	Biology I		
ES	1036	I	Biology II: Form and Function		1
reproduc We will o primary at interv plants, a Attendat	ction of indiv explore princ focus of the als. Weekly and animals. nce at two le tion of a lab/f	iduals and iples of ev course is field and la ctures and ield noteb	logical structures at the level of whole organisms and organs at d the evolution of populations. volution, classification, anatomy and physiology, epidemiology, on vertebrate animals and vascular plants, but we will make for aboratory studies introduce students to the local range of habita d one lab each week is required; course evaluation is based on pook, and a mid-term presentation. It should be stressed that thi	behavior, and basic ays into other phylo ats and a broad arra class participation,	ecology. The genetic lineages y of protists, exams,
the orga	nism within i		Blood: Substance and Symbol		
HS	3011	M	Bread, Love and Dreams		1
Students start with <i>Two Ess</i> We then <i>History</i> of	thes to the un s are expected h the uncons says in Analy n move to mo of Sexuality, ing part of th	nconsciou ed to keep cious in it <i>tical Psyc</i> ore conten and finally	nowing something which by definition is unknown. It then proce s: dreams and love. o dream notebooks and to recognize their own unconscious life s classical formulation according to Freud and Jung. We read 7 <i>shology</i> . We consider these themes in fiction using Henry James nporary writers, particularly James Hillman's <i>The Dream and the</i> y consider some of the negative implications of the material in E is done in pairs, with groups of two students cross-examining e	in the light of readin The Interpretation of S' The Beast in the e Underworld, Miche Ilaine Scarry's The I	gs. Readings <i>Dreams</i> and <i>Jungle.</i> el Foucault's Body in Pain.

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AD	1029	Ι	Building a Kayak		
ES	1024	-	Calculus I		
ES	3012	М	Calculus II		
AD	1010	I	Ceramics I		
ED	1013	I	Changing Schools, Changing Society		1
This inte	rdisciplinary	, team-tau	and how should schools change to ensure "the good life"?	jical education as a	
			ng positive social, cultural, and environmental change. It explore to human development and social progress.	es three essential q	uestions about
role of si teacher working Through phenom at the fe relations methods that striv	chools in dev in school/org in the field o course activ enon (e.g., s deral, state, ship, and refle s (i.e, ethnog	velopment janization f education vities such chool cho and local ect on the raphy, cas education	ducational institutions and their relationship to government and t and social change? Considering the role of teachers as agents al change and community development? And finally, reflecting of masservice-learning in schools and group project work on a con- tice, new technologies for learning, single-sex education), stude levels impacts teaching and learning, investigate the moral dime construct of teacher-learners. Students will be introduced to a se study, quasi-experimental, correlational) that will allow for cri- nal policy and practice. Evaluation will be based on participation tations.	of change: What is on our subjective mo atemporary education nts will learn how en ensions of the teach variety of education tical analysis of the	the role of the btives for anal ducational policy her-student al research knowledge base
ES	1020	I	Chemistry I		1
The cou The cou living sys three ho	rse first explores rse explores stems, the na	ores how the reasc atural env ch week.	-term sequence designed to help students describe and un atomic and molecular structure relates to the physical properties ons, rates, and outcomes of chemical reactions. Course materia ironment, and industrial products. The course meets for three h Students are strongly urged to take both terms of this course. E quizzes.	s of materials and th l is applied to better ours of lecture/discu	neir reactivity. understand ussion and for
ES	1030	I	Chemistry II		1
materia This couthem. It	ls. Irse begins v	vith a surv	two-term sequence designed to help students describe and rey of how the internal structure of atoms leads to the formation eaker forces can arise between molecules and the sorts of phys	of different sorts of	bonds between
explain. The clas	s concludes	by consid	lering how to describe and explain the rates at which (and the e	xtents to which) che	emicals

reactions occur and applies such descriptions and explanations to common types of reactions (acid/base and redox). Throughout the course, examples are drawn from living systems, the natural environment, and industrial products.

The course meets for three hours of lecture/discussion and for three hours of lab each week. Chemistry I is a strongly recommended a prerequisite for this course.

Evaluations are based on class participation, homework, midterm and final exams and a term project or paper.

ED	1014	I	Child Development		
AD	1028	I	Chinese Calligraphy		
AD	3021	М	Cities: Past, Present and Future		
HS	2037	IM	Classic Shorts: What's in Our Hands		
HS	2019	IM	Community Planning and Decision Making		
HS	3034	М	Conspiracy Theory and Political Discourse	1	

The fear of the "hidden" enemy that lurks behind the shadows is a narrative theme that appears periodically in the political discourse of all democratic societies.

Yet, this narrative of fear (often labeled as conspiracy theory) is regularly criticized as somehow being inherently anti democratic, irrational, or dangerous. At the same time, this form of argument can also be "mainstreamed" and defended as a legitimate response to the events of the moment. How do we make sense of this tension? If conspiracy theory as a mode of explanation is inherently "irrational," what does this mean for its enduring presence in our political discourse? Is the only difference between a reasonable claim rooted in fear and the conspiracy theories of "kooks" and "nutjobs" simply a matter of which one is "correct?"

This class will address the role fear and anxiety plays in our social and political lives. We will explore a variety of topics related directly to how threats, conspiracies, agents of "evil," and "otherness" become manifest in public discourse. Specific topics include: the possible tension between "rational" deliberative decision making and the cultivating of anxiety in public governance; why we dismiss some claims as mere conspiracy theory and yet have no problem accepting other similarly formed arguments; what role the "outsider" plays in cementing cohesion within an "in" group; and the disturbing possibility that fear is actually a healthy component of democratic debate.

The class will look at both contemporary and historical examples from the United States and around the world. There are three primary goals of the class: first, to expose students to the analysis of primary texts rooted in public fear and anxiety; second, to provoke discussion about the role of conspiracy and threats in democracies; and third, to provide students with a survey of secondary work that seeks to situate and make sense of these topics.

Readings will be a combination of primary artifacts for interpretation (such a speeches, manifestos, pamphlets, and movies) as well as secondary analytical readings. In addition to the regular class meeting time, students will be expected to attend a weekly evening lab session devoted to the screening of visual works and/or presentations by speakers. Evaluation will be based on readings driven discussion as well as individual student writing assignments. Students will produce several short length essay assignments during the term as well as a longer research paper at the end of the term. This class is open to students of all interests regardless of their experience with politics, government, or social theory.

AD	2013	IM	Constructing Visual Narrative	
HS	4014	MA	Contemporary Psychology: Body, Mind and Soul	

	2045	IM	Contemporary Social Movements: Bolivia		1
other o	concerns inv	oke value	ghts, indigenous community autonomy, ecological sustainab s, draw on methods and appeal to allies from the larger inte inctive dynamics at community, regional and national levels	rnational context	
become struggle a pluri-	e even more es leading up national stat	complex. to the ele e in which	eve political power that enables them to use the state in advar An especially rich and important case study of these complex of ection of Bolivia's first indigenous president, Evo Morales, and n rights of Nature ("Pacha Mama") and of indigenous communit (living well as opposed to living "ever better" with more GDP).	dynamics is provide the subsequent eff ies are embedded	d by the orts to establish
underst change	tanding of de to interpret	velopmen and critic	o introduce students to the history and current dynamics of Bo t issues as applied to Bolivia's current context; b.) develop ab ally analyze cases like Bolivia, and c.) develop their skills in re nange agents.	ilities to use theori	es of social
long pr	ojects in whi	ch studen	readings, discussion, visiting lectures from other COA faculty, ts will define and pursue research on a specific topic such as th coca production, or indigenous culture.		
session student	on the conce t work in disc	ept of Vivi	ster presentations as part of the October session of the Societ r Bien in Andean countries is being organized. Evaluation will l d in these papers, presentations, and other activities provide e	be based on the ext	ent to which
Reading		e shorter	excerpts from texts in general theories of social change by Cha	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth	gs will includ ners and exte	e shorter nsive read	excerpts from texts in general theories of social change by Cha dings related to Bolivia's geography, culture, history, economy eparation for the course.	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading	gs will includ ners and exte	e shorter nsive read	lings related to Bolivia's geography, culture, history, economy	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading	gs will includ hers and exte g will be assig	e shorter nsive read gned as pr	dings related to Bolivia's geography, culture, history, economy eparation for the course.	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading HS HS	gs will includ hers and exte g will be assig 4015	e shorter nsive read ned as pro- MA	dings related to Bolivia's geography, culture, history, economy eparation for the course. Creative Writing	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading HS HS	gs will includ hers and exte g will be assig 4015 2047	e shorter nsive read gned as pro- MA IM	dings related to Bolivia's geography, culture, history, economy eparation for the course. Creative Writing Criminal Justice and Criminal Injustice	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading HS HS HS ES	gs will includ hers and exte g will be assig 4015 2047 1024	e shorter nsive read ned as pro- MA IM I	dings related to Bolivia's geography, culture, history, economy eparation for the course. Creative Writing Criminal Justice and Criminal Injustice Debate Workshop	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading HS HS HS ES	gs will includ hers and exte g will be assig 4015 2047 1024 3022	e shorter nsive read ned as pro- MA IM I N	dings related to Bolivia's geography, culture, history, economy eparation for the course. Creative Writing Criminal Justice and Criminal Injustice Debate Workshop Differential Equations	arles Tilly, Bill Moye	er, Paulo Freire,
Reading and oth reading HS HS HS ES AD	gs will includ hers and exte g will be assig 4015 2047 1024 3022 3012	e shorter nsive read gned as pro- MA IM I M M	dings related to Bolivia's geography, culture, history, economy eparation for the course. Creative Writing Criminal Justice and Criminal Injustice Debate Workshop Differential Equations Documentary Video Studio	arles Tilly, Bill Moye	er, Paulo Freire,

This course is an intensive field course that focuses on research design, collaborative fieldwork, and data analysis and interpretation for ecological studies done in local aquatic ecosystems.

Within the broad category of aquatic habitats the course focuses on intertidal mudflats and streams. Both of these habitats have ongoing field research and restoration work where faculty and students can make substantial contributions to local applied

research while learning methodologies and rationale for various types of research.

Potential project partners and collaborators include Acadia National Park, Maine Department of Marine Resources, Maine Department of Inland Fish and Wildlife. Somes-Meynell Sanctuary, Town of Bar Harbor Marine Resources Committee, Frenchman Bay Regional Shellfish Committee, Frenchman Bay Partners, the George Mitchell Center at the University of Maine, and Maine Coast Heritage Trust.

This class meets twice weekly with an additional lab period that will include some weekend days. Evaluation will be based on homework, short-answer essays and work with 1-2 other students as co-leaders on one of the small-group projects in the class.

ES	3014	М	Ecology		1
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This course examines ecology in the classic sense: the study of the causes and consequences of the distribution and abundance of organisms.

We examine the assumptions and predictions of general models of predator-prey interactions, inter- and intra-species competition, island biogeography, and resource use, and compare these models to the results of experimental tests in lab and field. In addition we discuss appropriate techniques used by ecologists in collecting data in the field, note-taking and the appropriate collation and storage of field data. Although this course is not a course in Conservation Biology, we examine how ecological principles are applied to conservation questions.

Readings include selections from the primary literature. Students are evaluated on the basis of class participation and two in depth problem sets, drawing extensively on the primary literature.

ES	3034	М	Ecology and Biology of Fungi		
ES	4038	MA	Ecology and Natural History of the American West	1	

The American West has played a key role in the development of modern ecology and in our overall understanding of the Natural History of North America.

Researchers such as Joseph Grinnell, Starker Leopold, Ned Johnson, Phillip Munz and Jim Patton contributed enormously to our understanding of the interactions, distribution, and abundance of the enormous range of plants and animals occupying the western states, while the incredible variety of topography found between the Pacific slope and Great Basin Desert, containing both the highest and lowest points in the Lower 48, has provided an ideal setting for both observation and experimentation.

This intensive field-based course will provide students with the opportunity to examine first-hand some key habitats within Nevada, California, and New Mexico, and to conduct a series of short projects on the fauna and flora in select sites. Areas to be examined will include terminal saline lakes, open deserts, montane meadows, pine forest, riparian hardwoods, wetlands, and agricultural landscapes.

Readings will include primary sources and more popular accounts of both locations and the peoples who have lived in these lands over the past several thousand years.

Evaluation will be based on class participation, a series of individual research projects and presentations, a detailed field journal, a mid-term and a final exam. This course will be integrated with and requires co-enrollment in Reading the West and Wilderness in the West.

ES	2010	IM	Ecology: Natural History		1
This co	urse empha	sizes fiel	d studies of the ecology of Mount Desert Island, incorporat	ing labs and field t	rips.
			entral ecological concept. Topics include intertidal biology and d insect diversity, pollination ecology, freshwater biology, predation		
Students	s are expecte	ed to keep	opment of natural history as a science and the role of natural se a field notebook or journal, to undertake a project, and to write ession or two field/lab sessions per week.	lection in the evolut a term paper. Class	ion of diversity. s meets for two
			opriate for students concentrating in Environmental Education. during registration. Returning students may take this course w		
HS	4023	MA	Economic Development: Theory and Case Studies	1	
widespr As a res the most economi We will b place-ba accumul capital, g endowm The cour analysis studies.	ult of this tra t important, of c developme oriefly contex used, country ation, capita governance, nents, industr rse will invol- and cross-s	tion of ge gedy, new dynamic, a ent. tualize th <i>i</i> -specific a l flows (in institution institution institution ve a rigore ectional s sed on cla	eloping world has lifted millions out of poverty at the same eneric economic development theories has impoverished n wapproaches and methodologies to economic development are and controversial theories in all of economics. This course exam e new by reviewing "old" economic development, then move on approaches to how economies develop; this will involve examin cluding foreign exchange, portfolio capital, foreign direct investri s (especially property rights, legal systems, and corruption), ge- (e.g. free trade versus dirigiste policies), and spillovers, clusteri bus mix of economic modeling, careful application of empirical of tudies; students with no exposure to econometrics will receive a assroom participation, responses to reading questions, short es- country study of the student's choice that demonstrates applicat	emerging, and reprinted in the set of the se	resent some of spectives on phasize very s of capital nce), human I resource urship. historical and country
ES	2016	IM	Edible Botany		1
true fruit the pear and app leaves, s	s of the stray nut a legume reciation for stems, fruits,	wberry are and not a the plant seeds, ar	able? Why are potatoes modified stems and sweet potatoes mode the achenes (seed-like structures) embedded in the flesh of the nut? This introductory botany course of edible plants is aimed world. We will cover general plant anatomy and morphology foc nd roots we use as food and discuss the botany of plant families used on class participation, weekly laboratory/field quizzes, and	e strawberry? Why at enhancing your u using on plant organs dominating the wo	is the fruit of inderstanding of ns such as
ES	5030	А	Energy and Technology	1	
This is a	n advanced	energy co	burse that expands on basic energy principles to take a more in-	depth look at sever	al sustainable

campus and with and formulate a p learn about techr The overarching taking into accou Students will be g	n the commu lan to collec ologies such goal of this c nt time, cost, raded on ho	be a project-centered course with a focus on renewable energy inity. Students will examine energy issues from several persper- needed data, secure funds and work with stakeholders. Over as heat pumps and energy storage devices as well as conserv- purse is to develop the skills needed to orchestrate a successfu- social, logistical and technological constraints. mework assignments, class participation, presentations and a fi- p-enrollment in Impact Investing and Islands: Energy, Economy	ctives, determine po the course of the ter ation methods and t I renewable energy nal report. This cou	ossible solutions m students will he power grid. endeavor,
ES 3046	М	Environmental Chemistry	1	
hydrosphere, of Roughly the first	the process	mprove students' understanding of the properties of the ea ses that maintain them, and of threats to them. m will focus on the atmosphere (e.g. ozone depletion, urban an	d indoor air quality,	and climate
metallic toxins). Evaluations will b	e based on v	will focus on the hydrosphere (e.g. eutrophication, acidification a veekly homework exercises, weekly lab reports, and a final pres nore depth than class time allows		, ,
ES 3030	М	Environmental Physiology		1
fascinated us. In environmental co evolutionary applithermoregulation patterns in physic	this course, nditions. We oach in orde behavioral e logical attrib	survive in extreme environments or function at levels that far ex we examine how an animal's physiology fashions its functional explore the interrelationships between physiology, behavior, ar to understand regulatory responses in changing environments energetics, and osmoregulation. Emphasis is placed on vertebrutes. This course has two lecture/discussion sessions per week take-home exams, and a class presentation.	capacities under van nd ecology using an Major areas to be ate systems to eluci	rious integrated and covered include date general
HS 2034	IM	Ethics: The History of the Problematic		1
It deals with ways Kierkegaard, A questions like the our society? Why seem to end but across cultures? history of Wester Key texts and pa historical context	that philoso Ayer, Sartri following: W are there so go on indefin The central t n ethics that ssages from a using mate	phers from Socrates, Plato and Aristotle, to Aquinas, Bentham, e, de Beauvoir, Sara Ruddick, Gandhi, Nozick, Rawls, and Alase /hat is the best way to live as individuals—and what does this in many types of moral disagreements in modern societies? Why itely? Are there ways to resolve these disputes that are persuas ext for the course will be MacIntyre's <i>After Virtue</i> , which provide claims to diagnose its core problems and provide solutions. the philosophers central to that narrative will be examined in der rial from texts such as W. T. Jones <i>History of Western Philosoph</i> elop skills to critically analyze philosophical texts and arguments	dair MacIntyre have nply about how we s do these disagreen sive between ethical s a systematic narra tail and interpreted i hy and Copleston's	addressed should structure nents never traditions and ative for the n light of their <i>History of</i>

-	3026	М	Ethnobotany		1
From t	he dawn of	human h	istory, plants have played an integral role in human societies	s across the world	d.
will exp	olore the use	of plants	rating an appreciation for the myriad uses of plants by human so as food and beverages, raw materials, fuel, medicine and psycho ligious and spiritual needs.	cieties, both past ar oactive drugs, spice	nd present. We es and perfumes
			mic, and social implications of our dependency on plants will also tive habitats, including threats to plant-human relations in tradition		ght of current
reading		sions. Ev	y human societies in maintaining floristic and associated cultural valuations will be based on class participation, involvement in class sentation.		
HS	3060	М	Financials		
HS	2048	IM	Food, Power and Justice	4	
markets study tł system will also ability (s, which acto he role of so is. Students o gain experi	ors want t cial move will learn ence in c or deeper	ver and politics in the food system: which actors hold power over o hold more power, and how they are contesting or defending the ments, as well as governmental and non-governmental actors, in to identify the main actors in food politics and discover how to tra onference organizing, teamwork, and public speaking. Students ning of ability) in thoughtful and respectful classroom participation	eir respective position domestic and inter ck their actions and will be evaluated o	ons. We will mational food d agendas. They n demonstrated
markets study th system will also ability (and pul	s, which acto he role of so is. Students o gain experi and growth o	ors want t cial move will learn ence in c or deeper	ver and politics in the food system: which actors hold power over o hold more power, and how they are contesting or defending the ments, as well as governmental and non-governmental actors, in to identify the main actors in food politics and discover how to tra onference organizing, teamwork, and public speaking. Students	resources, decisio eir respective position domestic and inter ck their actions and will be evaluated o	ons. We will mational food d agendas. The n demonstrated
markets study th system will also ability (and pull AD	s, which actor he role of sor is. Students v o gain experi and growth o blic speaking	ors want to cial move will learn ence in c or deeper J.	ver and politics in the food system: which actors hold power over o hold more power, and how they are contesting or defending the ments, as well as governmental and non-governmental actors, in to identify the main actors in food politics and discover how to tra onference organizing, teamwork, and public speaking. Students ning of ability) in thoughtful and respectful classroom participation	resources, decisio eir respective position domestic and inter ck their actions and will be evaluated o	ons. We will mational food d agendas. The n demonstrated
markets study th system will also ability (and pul AD HS France Paysan Yet wel with de	s, which actors the role of some solutions. Students to gain experi- and growth of blic speaking 1019 3058 ane, Greenper Blic Streenper Blic	een a ho cace Fran Os made f Appellat	ver and politics in the food system: which actors hold power over o hold more power, and how they are contesting or defending the ments, as well as governmental and non-governmental actors, in to identify the main actors in food politics and discover how to tra onference organizing, teamwork, and public speaking. Students ning of ability) in thoughtful and respectful classroom participation Four Dimensional Studio FRANCE: French Food Politics and European Political	r resources, decisio bir respective position domestic and inter ck their actions and will be evaluated o a, small group intera 1 Bové and the Conference enetically engineer were protecting the	ons. We will mational food d agendas. They n demonstrated action, writing édération ed maize. eir local products
markets study the system will also ability (and pull AD HS France Paysan Yet well with de "champ change interact Europe	s, which actors is, students is of gain experiis and growth of blic speaking 1019 3058 a has long brane, Greenpe II before GM signations of bragne" for an experies politics lead tions with key an political in	I M een a hore acce Frant Os made f Appellat y sparklir II explore U), such a ling up to y figures of hattutions	ver and politics in the food system: which actors hold power over o hold more power, and how they are contesting or defending the ments, as well as governmental and non-governmental actors, in to identify the main actors in food politics and discover how to tra onference organizing, teamwork, and public speaking. Students ning of ability) in thoughtful and respectful classroom participation Four Dimensional Studio FRANCE: French Food Politics and European Political Institutions tbed of radical food politics. Current day leaders include José I ice, and the anonymous "faucheurs volontaires" (harvesters) of g French food politics famous around the world, French producers ion d'Origine Contrôll ée, and using international legal accords to	r resources, decisio per respective position domestic and inter ck their actions and will be evaluated o a, small group intera 1 Bové and the Confe enetically engineer were protecting the prevent the use of olitics within France agriculture linked w Policy, through read dents will become f	e and the ings and direct familiar with the

HS	3057	М	FRANCE: Taking the Waters: The Politics and Culture of Water	1	
marketir global w	ng of Perrier	that starte ke Suez L	vaters. Whether it is the spa cities like Vichy where people flock ad the global bottled water craze, the pilgrimages to the sacred v yonnaise des Eaux, or the rivers that define its various regions,	vaters of Lourdes, t	he home of
water. T (Immers	his class will ion Program	be taugh in French	Itiple dimensions of water in France and Europe and ultimately t in conjunction with Doreen Stabinsky's class and the French la h Language and Culture). The first five weeks of the course will s that have drawn people since Roman times to "faire une cure	inguage course at 0 be based in Vichy.	CAVILAM
renewal water d hrough water st	. In addition, lemocracy" a excursions in ructures, to t	we will in round the n France a he engine	and the current practice of thermal medicine, we will examine t vestigate the conflict between efforts to commodify water global idea of water as a human right. The final three weeks of the co and to Brussels to understand the history of humans' relationshi tering marvel of Paris sewers, contested dam sites, and multina- ges in water paradigms over time.	ly and citizen efforts urse will explore rela p with water. From	s to build a ated issues ancient Roman
Framew water qι	ork Directive ality, and the	provides e strength	ess the success of Europe's continent-wide attempt at holistic v an excellent opportunity to investigate the new federalism of Eu is and weaknesses of Integrated Water Resource Management. gh some conversations with outside experts may be in French.	rope, ambitious effe	orts to improve
ES	1014	1	Gardens and Greenhouses: Theory/Practice of Organic Gardening	1	
an unde The info	erstanding of	of what de	ndation of knowledge for a gardener to begin the process of efines organic gardening. uses on soil fertility and stewardship, the ecology of garden plan e garden is presented as a system of dynamic interactions.		-
weed an	nd insect ider	ntification,	e crops and soil fertility. Laboratories include soil analysis, tree garden design, cover cropping, composting, and reclamation o lass and lab, written class work, exam, and final individual garde	f comfrey infested a	
ES	3032	М	Genetics		
HS	2020	IM	Geographic Information Systems I: Foundations and Applications		1
			ble and their impact on the Earth's finite resources could lea also for human populations.	ad to disaster: not	only for
actions a	and environn	nental deg	blish more data, GIS becomes vital to graphically revealing the i gradation. Much of what threatens the earth and its inhabitants i aces and prescribe solutions. <i>This is what GIS is about</i> .		

into many graduate programs and jobs, particularly in natural resources, planning and policy, and human studies.

The flow of this course has two tracts, technical and applied. The course begins with training in the basics of the technology. Then, skills are applied to projects that address real-world issues. Project work composes the majority of course work and each student has the opportunity to develop their own project. Because GIS provides tools to help address many kinds of issues, GIS lends itself well to the theory of thinking globally and acting locally.

Projects often utilize the extensive data library for the Acadia region developed by students since the lab was founded in 1988. The GIS Lab acts as a service provider to outside organizations and students can tap into the resources of a broad network of groups and individuals working towards a more sustainable future. Course evaluations are partially based on the on-time completion of exercises and problem sets. Most of the evaluation is based on critique of student independent final project work and related documentation.

ES	1038	I	Geology of Mt. Desert Island	1

This course is designed to introduce students to geological concepts, tools of the trade, and to the geological history of Mount Desert Island.

Throughout the course, students will learn skill sets (topographic and geologic map reading, orienteering, field observation, note taking, field measurements) and geologic principles (rock types, stratigraphy, plate tectonics, earth systems, geologic time, surface processes) both in the classroom and in the field.

We will conduct multiple short field excursions on MDI and one extended weekend field trip to explore the regional geology. Students will submit a term project complete with their own field data, maps, photos, and analysis of the local and regional geology. Students will be evaluated on the term project, short quizzes, additional written assignments, and lab reports.

GS	6011		Global Climate Politics: Market and Finance	1					
Peru. T the hist clear a Time w will par calls w	There will be torical conte nd strong ur vill also be s ticipate in m ith policy ex ons, negotiat	two mand xts, langua nderstandir pent lookin neetings, di perts and r	e students for the Twentieth Session of the United Nations Confe atory class sessions per week as well as at least one informal se age and actions of the United Nations Framework on Climate Ch ng of the UNFCCC, the literacy used and the politics surrounding g into climate justice, civil society and global perspectives as we scussions, presentations and working group participation. There nembers of NGOs who work within the UN Climate regime. The ther documents submitted throughout previous COPs from Parti	ession. It will be beg ange to date. Throu g it will be gained. Il as spaces at COF will be weekly assi- re is required readin	in by mapping gh this focus, a P. Each student gned conference g into past				
UNFC0 Party s mecha well as the var the Sta blogs(2	CC that surro submissions nisms. Stude the Protoco rious funding anding Comr 20%), attend	ound mark and politic ents may a ol's Clean I g strategies nittee on F	hally focus on the negotiation texts, political debates, and institut et mechanisms for mitigating emissions or "climate finance." Thi al developments on the Framework for Various Approaches and also delve into Flexibility Mechanisms, the Emissions Trading fac Development Mechanism and the Mechanism for Joint Implement and bodies under the Parties including the Global Environment inance, fast-start finance, and long-term finance. Students will b b), and class facilitation and participation (40%).	s work will include for the broader market ilitated by the Kyoto itation. Students will Facility (GEF) Gree	ollowing the and non-marke Protocol as I also look into n Climate Fund				
HS	1042	Ι	Globalization/Anti-Globalization						
AD	2011	IM	Graphic Design Studio I: Visual Communication		1				
Visual	communic	ation is or	ne of the most pervasive means of human communication.	1	1				

through be prom	Graphic design, within the realm of visual communication, is a process used to effectively convey ideas and information visually through print, electronic media, products in the marketplace, and structural elements in the built environment. Its application may be promotional, editorial, informational, expositional or instigational. It may cater to, or critique—commercialism, colonialism, capitalism, and advertising—or alternately be used to organize information and visualize complex data, or concepts.							
Past oth respons course y	Is it possible to construct a visual message that will be received through the din and noise of our overstuffed media environment? Past other competing messages? What are some of the contemporary issues surrounding design and the roles and responsibilities of graphic designers in the workplace and in their communities? In this introductory/intermediate level studio course you will become familiar with visual rhetoric and the basic elements, principles, and processes of graphic design that will help you to construct effective visual messages.							
promotio	onal design.	Lectures,	onceptual visual communication projects in the realms of inform demonstrations, assignments and critiques will offer a balanced nking and visual communication.					
on the c Adobe I program	An emphasis is placed on these elements and evaluation will be weighted more heavily in these areas than technical expertise on the computer. You will however, be required to learn the basics of several computer graphic applications (Adobe Photoshop, Adobe Illustrator, and Adobe InDesign and/or Quark) in order to complete coursework. You will receive basic instruction in these programs in class, but will be expected to refer to computer manuals and guide books for specific tools and techniques that may be required to visualize your ideas.							
HS	5022	А	Hatchery	1				
Vision of The Hat individua policy at arts; fun Venture selected team or receive the initia resource The Hat Prototyp These p course,	The Hatchery is applied Human Ecology in action; it offers students a bridge from coursework to actively creating their vision of the future. The Hatchery gives students from across the campus the opportunity to move from ideas to action. Hatchery students work either individually or in teams on a wide array of enterprises. Past projects have included: urban farming; international development; policy and planning; photography and film; alternative transportation; biofuel production; renewable energy; food systems; the arts; furniture production; technology development; social enterprise. Ventures have been for-profit and nonprofit, encompassing the range from local businesses to scalable start-ups. Students selected for the Hatchery are required to devote an entire term to launching their venture. Each Hatchery enterprise, whether a team or an individual, must take the course for a minimum of three credits. Along with weekly instructional meetings, students receive office space, supplies, professional services, mentors and potential access to seed capital to develop their ventures. After the initial ten weeks of class, if students decide to continue their enterprises, they have access to the Hatchery space and resources for an additional nine months. The Hatchery takes place in three phases: –Application: Students apply for a position in the Hatchery over winter term. –Rapid Prototype: The ten weeks of the Hatchery course. Students create a rapid prototype to test their ventures in the marketplace. These prototypes vary widely depending on the type of ventures. –Creating an Enterprise Structure: During the ten weeks of the							
	operational considerations that are universal amongst enterprises. –Development: The following 9-months. Students have access to the Hatchery space and resources to continue developing their enterprises.							
ES	3018	М	Herpetology					
HS	4018	МА	Histories of Power: States and Subalterns in Modern Latin America					
AD	1027	I	History of Filmmaking (1895-1945)					
AD	3018	М	History of Fllmmaking II (1946-present)					

AD	2020	IM	History of Photography						
HS	1021	I	History of the American Conservation Movement	1					
This course provides students with an overview of the American conservation movement from the 1600s through the present.									
Through an examination of historical accounts and contemporary analysis, students develop an understanding of the issues, places, value conflicts, and people who have shaped conservation and environmental policy in the United States. They also gain an appreciation for the relationship between the conservation movement and other social and political movements.									
to apply	Students should come away with a sense of the historical and cultural context of American attitudes toward nature. We also seek to apply these lessons to policy debates currently underway in Maine. Working from original writings, students do in-depth research on a selected historical figure.								
Evaluati	on is based o	on probler	n sets, group activities, participation, and a final paper.						
HE	1010	I	Human Ecology Core Course		1				
Human environ		the interd	lisciplinary study of the relationships between humans and	their natural and	cultural				
of the ar By the e and beco prepared	ts, humanitie nd of the cou ome inextrica d to create th	es, and sc urse stude ably intert neir own h	to build a community of learners that explores the question of hu- iences, both in and outside the classroom. The should be familiar with how differently these three broad are wined when theoretical ideas are put into practice. In the end, w uman ecology degree through a more in-depth exploration of th central goal through a series of directed readings and activities	eas ask questions, p re want students to e courses offered a	bose solutions, be better				
HS	6014		Immersion Program in French Language and Culture						
HS	5034	А	Impact Investing	1					
HS 5034 A Impact Investing 1 Impact Investing focuses on the emerging field of impact investing, which seeks to generate returns for society, the environment and financial investors. Impact investing seeks to create avenues for private investment to work alongside existing efforts of NGOs and others to help solve global and local problems. Impact investing can be used to fund solutions in areas as diverse as food systems, climate change, poverty, affordable housing and clean technology among other issues. This course will examine the strategy of various impact investing mechanisms from crowdfunding to "localvesting." In addition, students will examine case studies to understand the benefits and pitfalls of different strategies and their potential to create social and environmental change. During the course students will learn how to create financial projections and evaluate the financial returns of enterprises. For their final project, students will have to structure an investment platform that generates returns financially, socially and/or environmentally.									
Students	s will be eval ed with and r	uated bas equires co	sed on class participation, written assignments and verbal prese p-enrollment in Energy and Technology and Islands: Energy, Ec	ntations. This cours onomy and Commu	e will be inity.				
Practicu	m, Financial	s, Busines	es: At least one of the following: Math and Physics of Sustainab ss Nonprofit Basics, Sustainable Strategies or Launching a New fee: none. Meets the following degree requirements: HS						
HS	1047	l	Indian People and the Down East Coast						

	2061	IM	Indigenous America					
HS	1046	1	Introduction to Economics and the Economy		1			
	This course provides students with an introduction to both economic theory and the historical and institutional background needed to understand the context, functioning, and trajectory of 21st Century economies.							
(microed internati	conomics) ar onal topics s	nd the wor uch as tra	nts will be introduced to explanations of the economic behavior of kings of national economies and money (macroeconomics), inc ade and exchange rates. In addition to the standard neoclassica feminist, Marxist, and ecological economics perspectives.	luding economic de	velopment and			
capitalis poverty,	m, the rise o	f corporat	cal approaches will be a rich immersion in historical and institut ions, the institutional background of markets for stocks, bonds, e.g. as seen in China and Brazil), and the events that led up to r	and derivatives, ine	quality and			
			-weekly problem sets, a final exam, and various forms of classro sion that will be scheduled the first week of the term.	oom participation. L	earning will be			
ED	5014	А	Integrated Methods I: Gr. K-4 Reading and Writing					
HS	3041	М	Intermediate Atelier In French Language and Conversation					
AD	1011	I	Introduction to Arts and Design		1			
This co	urse is the f	undamer	tal course for students pursuing studies in Arts and Desig					
of issue This cou in garde Students docume	urse includes n design, his s will also ex nt, analyze, ;	d in the a studio, fic storic arch amine the and make	eld, historical, and theoretical components. Students learn how itectural styles, and planning.	basic design princip v. Students are expe lio work involves bo	ples are applied ected to observe, th individual and			
of issue This cou in garde Students docume team eff of many of the co	urse includes in design, his s will also ex nt, analyze, a forts which an arts and des burse. Studer ons and critic	d in the a studio, fie storic arch amine the and make re present sign cours nts are ex	eld, historical, and theoretical components. Students learn how itectural styles, and planning.	basic design princip 2. Students are expension lio work involves bo essential skill and a udents delve deeper erpts, and participat	oles are applied ected to observe, th individual and an integral part into any aspect e in class			
of issue This cou in garde Students docume team eff of many of the co discussi	urse includes in design, his s will also ex nt, analyze, a forts which an arts and des burse. Studer ons and critic	d in the a studio, fie storic arch amine the and make re present sign cours nts are ex	eld, historical, and theoretical components. Students learn how itectural styles, and planning. history and application of perspective drawing and color theory recommendations for improvement of the designed world. Students defor class critique. Learning to give constructive critique is an use. The last two weeks are dedicated to final projects where stupected to complete each project, read assigned books and exce	basic design princip 2. Students are expension lio work involves bo essential skill and a udents delve deeper erpts, and participat	oles are applied ected to observe, th individual and an integral part into any aspect e in class			
of issue This cou in garde Students docume team eff of many of the co discussi submitte MD This cou sustaina contemp experier participa commor (horses) and will	urse includes in design, his s will also ex nt, analyze, a orts which al arts and des ourse. Studer ons and critic ad work. 1013 1013 1013 1013 1013 1013 1013 101	d in the a studio, fie storic arch amine the and make re present sign cours nts are ex ques. All v lide an intr production nable live , Extensic g through e manage	eld, historical, and theoretical components. Students learn how itectural styles, and planning. history and application of perspective drawing and color theory recommendations for improvement of the designed world. Studed for class critique. Learning to give constructive critique is an es. The last two weeks are dedicated to final projects where stupected to complete each project, read assigned books and excover work is submitted at the end of term and evaluations are based of the student of the designed world.	basic design princip A. Students are expen- lio work involves bo essential skill and a idents delve deeper erpts, and participat on attendance, part tional production ag agricultural commu- ed readings, and had ious health and nutro back species on a div n attendance, partici	ected to observe, th individual and an integral part into any aspect e in class icipation, and 1 scale, priculture to unity (e.g., unds-on ition needs of uminants rersified farm pation in class			

AD	1026	I	Introduction to Photography		
ES	2012	IM	Introduction to Stats and Research Design		
HS	2024	IM	Introduction to the Philosophy of Mind		
ES	2022	IM	Introductory Entomology		
HS	1028	I	Introduction to French I		
ES	3020	М	Invertebrate Zoology		
MD	5011	А	Islands: Energy, Economy and Community	1	

This course is focused on developing initiatives in the renewable energy and finance sectors on MDI and Maine Islands and is being offered in conjunction with the Island Institute and the Samsø Energy Academy in Denmark. This will be a comprehensive, intensive, interdisciplinary course. Students and community members from Maine's Islands will learn from the Samsø Island experience of transforming to a carbon negative island through a community driven, grass-roots approach to create investment opportunities for both individuals and businesses in enterprises that developed and scaled, efficiency upgrades, wind, and solar power production and biofuel distributed heating and other elements of a renewable energy portfolio.

Three weeks of the term will be spent at Samsø's Energy Academy learning the community process, investment and engineering strategies that the small rural farming and tourist community used to transform themselves into an independent energy community and rejuvenate their local economy. The course will push students to identify opportunities within their communities and develop significant energy-related ventures accordingly. COA students and island resident participants will use this knowledge to develop plans for adapting and creating appropriate technology, investment platforms or services to reduce energy consumption and to boost renewable energy production here in Maine.

Students will be evaluated based on class participation, written assignments and verbal presentations. This course will be integrated with and requires co-enrollment in Impact Investing and Energy and Technology.

AD	1013	I	Jazz, Rock and Blues: From their Origins to the Present	
HS	2046	IM	La Respuesta: Representation and Literature of Witness	
ES	2028	М	Landforms and Vegetation	1

The course is directed at those interested in descriptive and applied research on taxonomic and ecological aspects of plants. Using field observations and experimental methods students will explore the influence of lithology (parent material), geomorphology (landforms, including topography), and land-use history on the composition and ecology of plant communities of Mount Desert Island and other settings in Maine. Lectures will cover a broad range of topics in geoecology, including plant-soil-microbe relations, plant ecology and evolution, plant ecophysiology, stressors influencing plant species and communities of the Northeast, and conservation and restoration. Students will learn the theory and practice of plant taxonomy and the nomenclature of over 150 species of vascular plants, including the morphological and ecological traits characterizing their families. As part of the evaluation, students are responsible for making a 25-specimen plant collection from one or more plant communities and providing a detailed description on the biotic and abiotic features characterizing the chosen plant-habitat association. Students will also be exposed to methods in plant ecology, including techniques in vegetation surveying and the collection of ecological data on below- and above-ground habitat features to better characterize plant-habitat associations. While students are encouraged to explore a range of habitats on and off the island, students working on plant-habitat associations in the Northeast Creek Watershed will be able to incorporate their plant-habitat data into the Watershed Database managed by COA's GIS Laboratory. Evaluations are based on a 25-specimen plant collection and report (30%), weekly field quizzes on plant taxonomy and ecology (30%), final project presentation on a plant community ecology topic (30%), and class participation (10%).

HS	6012		Learning a Language on Your Own	
ES	5020	А	Lichen Biology	
AD	4011	MA	Life Drawing	
HS	3046	М	Macroeconomic Theory	
ES	1028	I	Marine Biology	1

			ring the biology of organisms in various marine habitats (r reefs, deep sea), and some policy and marine managemer					
The largest part of this course is focused on learning to identify and understand the natural history and ecology of the marine flora and fauna of New England, with an emphasis on the rocky intertidal of Mount Desert Island.								
participa	The course meets twice per week with one afternoon for laboratory work or field trips. Evaluations are based on the quality of participation in class, one in-class practical, several sets of essay questions, and a field notebook emphasizing natural history notes of local organisms.							
This class is intended for first-year students, who will have priority during registration. Returning students may take this course only with permission of the instructor.								
ES	2030	IM	Marine Mammal Biology I	1	1			
	urse provid t within the		oduction to the biology and natural history of marine mam antic.	mals, specializing	in species			
manage	ment/conser	vation iss	geny and taxonomy; anatomy and physiology; behavior; sensor ues. The course includes field trips to observe animals in their r ne professional peer review field.		ection of			
Students in class.		ed to com	plete two individual literature-based reviews, one species- and	one system-based, t	to be presented			
			participation, presentations, and written submissions. Lab fee time, and optional travel to a regional conference during the te		trips, including			
MD	4010	MA	Marine Policy		1			
develop	ment, and th	e loss of f	Pew Oceans Commission, "America's oceans are in a state of c isheries, habitat, and wildlife threaten the health of the oceans stal communities."					
			eneral understanding of both marine resources and curren g these resources.	t regional, national	, and			
and loca	Because oceans and the life they support transcend national and state boundaries, the course will explore international, national, and local ocean policy-making frameworks, including specific legislation addressing fisheries, coastal development, species protection, pollution, and resource extraction.							
manage and Nev scientist	We will examine some of the controversies that exist in marine environments today using historical case studies of ocean management policy. These case studies include management of Atlantic salmon, tuna-dolphin interactions, off-shore oil drilling, and New England fisheries. Because of the interdisciplinary nature of these problems, it is necessary to understand how scientists and policy makers think about the same issues, how they attempt to solve problems, and how these two views can be brought together successfully.							
	nent will inclusue, and cla		al question sets, a final small group paper and presentation tha ation.	t investigates a curre	ent marine			

	2049	IM	Marvelous Terrible Place: Human Ecology of Newfoundland		1
			ion of humpback whales in the world, the largest caribou h in North America, and Paleozoic water bottled for consum		ica, the only
	and a tragic		e of Newfoundland and Labrador presents a stunning landscape poverty amidst an incredible natural resource, the northern cod		
French, one of the merchar	British, and ne last British nts and an hi	the US mi n colonies ighly explo	ately invaded or occupied by different groups of Native Americar litary, because of its strategic location and rich fishing and hunti , this richest of fisheries produced a very class based society, co bited population of fishing families often living on the edge of sur en forced to evolve.	ng grounds. One of omposed of a weal	f the first and thy few urban
eco- and numan e otherwis /arious i culminat	d cultural tou ecology of th se, the strugg readings, ex te with a two	rism with is provinc gle betwee amine cas -week trip	ks towards oil and mineral exploitation to turn around the econo growing ambivalence. This then is our setting, and background, e; the relationship between humans and their environment, som en the tenuous grasp of civilization and this marvelous, terrible p se studies and review the natural and human history of this uniq to Newfoundland to examine its issues firsthand. Evaluation will ding questions, a field journal, and a final project.	for an intense exar etimes successful, lace. To do this we ue province. Our le	mination of the sometimes will discuss arning will
HS	5013	А	Methods of Teaching Writing Across the Curriculum		
HS	3027	М	Microeconomics for Business and Policy		1
What ca reduce t all Amer	in the game heir carbon ricans, at mu	of blackja emissions ch less co	t dollars to advertise a product with which most people are ock tell us about how industries are structured? How can we get while they save millions of dollars in the process? How can we post, while making it easier for small businesses to grow? All of the economic theory.	coal-burning power provide much bette	utilities to er healthcare to
	ermediate-lev				
econom approac and dec	ic behavior o hes that hav ision-making	of busines e numero g, strategio	exposes students to basic microeconomic theories, models, an ses, individuals, governments and politicians, and international us overlapping applications to both business and policy evaluati behavior (using game theory), consumer behavior, externalities of public goods (such as military, education, and environmental	organizations. We v on: markets, pricing s (such as greenho	vill emphasize g, firm structure
econom approac and dec emissior We will situation	ic behavior of thes that hav ision-making ns), and the pay special a ns) that have	of busines re numero g, strategio provision attention to a wide ra	ses, individuals, governments and politicians, and international or us overlapping applications to both business and policy evaluation behavior (using game theory), consumer behavior, externalities	organizations. We won: markets, pricing s (such as greenho conservation). noral hazard, and p	vill emphasize g, firm structure use gas principal-agent
econom approac and dec emissior We will p situation system, This will graphica	ic behavior of thes that hav ision-making ns), and the pay special a is) that have the structuri be a non-ca al modeling of	of busines re numero g, strategic provision attention to a wide ra ng of busi alculus cou	ses, individuals, governments and politicians, and international of us overlapping applications to both business and policy evaluati behavior (using game theory), consumer behavior, externalities of public goods (such as military, education, and environmental to the economics of asymmetric information (adverse selection, r nge of applications, including issues such as the ineffectiveness	organizations. We won: markets, pricing s (such as greenho conservation). moral hazard, and p s of the American he eling, with heavy er	vill emphasize g, firm structure use gas principal-agent ealthcare nphasis on

at Mount Desert Island Biological Laboratory (MDIBL).

Students learn how to do basic molecular genetic techniques, including some subset of DNA extraction, RNA extraction, PCR, RT-PCR, cloning, and bioinformatics. Students work on how to carry out a research design around a specific question, and how to carry out the research and interpret results.

The material will be taught around a research question that the group will work on for a one-week period over spring break. The course is taught by various MDIBL research staff. Successful completion of the workshop requires attendance for the entire week.

ES	1050	I	Morphology and Diversity of MDI Plants	
HS	3019	М	Mountain Poets of China and Japan	
HS	3059	М	Native American Literature	1

This course is a challenging introduction to several centuries of Native American literature, the relevance of historical and cultural facts to its literary forms, and the challenges of bridging oral and written traditions.

Authors include such writers as Silko, Erdrich, Harjo, Vizenor, and McNickle as well as earlier speeches and short stories.

We also consider non-native readings and appropriation of Native American styles, material, and world views.

ES		Natural Resources	1	
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This course will focus on various types of natural resources we have on Earth including water, soil, rock and mineral, and various energy resources (fossil fuels, alternatives).

Students will learn fundamental geologic principles through a discussion of the processes forming and influencing these resources. We will explore how each type is extracted/refined/exploited/conserved for human use. We will also discuss the many environmental issues associated with each industry. Finally, we will look at the local industries built on the many natural resources available in our region of Maine.

This course will appeal to students interested in geologic processes and how they relate to our resource needs. This course will also provide scientific grounding in the relevant geology for students whose primary interests are in the policy or politics of resources. Class time will be spent as lectures, discussions, labs or demonstration, and occasionally visiting a local field site.

Students will be evaluated based on weekly labs and/or problem sets, a field trip report, and a final report.

HS	2011	IM	Nineteenth Century American Women	
HS	3036	М	Oceans and Fishes: Readings in Environmental History	1

This course will explore the rapidly expanding field of marine environmental history and historical studies that focus on fish and fisheries.

Recent methodological and conceptual work as well as growing interest in the history of these topics driven by conservation and policy issues has made this an important and innovative field. Using the work of a variety of scholars from different fields the class will explore how historical accounts can be constructed with an emphasis on the types of available sources, the use of

evidence, and how each author builds her or his argument.

We will explicitly compare the methods, use of evidence, and other aspects of different disciplinary approaches to the topic to highlight the strengths and limitations of each approach. This dimension of the class is particularly interesting because of the dynamic and interdisciplinary nature of scholarship right now that brings a wide range of research into dialogue. Students will learn about the history of oceans and fishes by looking at how historians and other scholars frame their works and make their arguments.

Students will be evaluated on their preparation for discussion, mastery of the material, short written assignments, and a final project made up of a presentation and essay. This course is appropriate for students with interest in history, community-based research, marine studies, and environmental policy. Students who are just curious and interested in lots of things are also most welcome.

ES	1016	I	Ornithology		
HS	2012	IM	Personality and Social Development		
HS	2060	IM	Philosophies of Liberation		
ES	1034	I	Physics and Mathematics of Sustainable Energy	1	

In this course students will learn content and skills so that they can participate effectively in sustainable energy projects, make personal and community decisions that reduce carbon emissions, and work in ventures in sustainable energy. Additionally, this course will be useful for those interested in energy and climate policy, either internationally or domestically.

We will begin with a quick overview of current CO2 emissions levels and look at how this is related to energy use. We will then turn our attention to basic ideas from physics, including the definition of energy and the difference between energy and power. The bulk of the course will consist of a survey of different forms of energy consumption and generation. Throughout, we will quantitatively analyze technology from both a local and global point of view. For example, we will calculate how much electricity one can generate on a rooftop, and we will also examine the role that solar PV could play toward the goal of eliminating fossil fuel use worldwide. In a unit on financial mathematics, students will learn about the time value of money and several ways of quantifying investments, including ROI (return on investment) and IRR (internal rate of return). Students will apply these financial tools in several short case studies. If time permits, we may also cover negative emissions technologies and the electrical grid, including grid stability issues and the potential of smart-grid technology. This will be a demanding, introductory, class. Evaluation will be based on weekly problem sets.

ES	1018	I	Physics I: Mechanics and Energy				
ES	1044	I	Physics II				
ES	1049	I	Plant Life: A Brief History				
ES	2029	IM	Plants in the Campus Landscape		1		

This course adopts a workshop format, focusing on the management of living plant collections on the COA campus. Emphasis will be on planting and maintenance of woody plants, but some attention will be paid to perennial herbaceous ornamentals. Class activities will include hands-on projects, e.g. pruning campus trees, shrubs, and vines, planting new accessions for the campus-wide arboretum, identifying and labeling plants, developing a map and tour guide for campus plants, studying planting design principals and site requirements, and developing a plan for future additions to the campus-wide arboretum, strategies for dealing with invasive exotics, and replacement of specimen trees. This course may be especially appropriate for those interested in horticulture and landscape architecture. There are no course prerequisites, but some background in design or horticulture is helpful, such as a prior course in plant taxonomy, gardening, arts and design, or architecture. Students will be evaluated on class participation, completion of assignments and an individual project.

HS	1041	1	Platforms of Thought: Introduction to Social Theory		
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HS	3050	М	Poetry Workshop	
HS	1039	I	Political Persuasion and Messaging Fundamentals	
HS	1045	I	Politics of Israel	
HS	2052	IM	Popular Psychology	
HS	3061	М	Postcolonial Islands	
HS	4031	MA	Power and Governance	
HS	2026	IM	Practical Skills in Community Development	1

In rural areas throughout the world, citizens, non-profit leaders, agency staff, and elected officials are coming together to frame complex issues and bring about change in local policy and practice.

This course will outline the theory and practice of community development, drawing on the instructor's experience with the D_thchas Project for sustainable community development in the Highlands and Islands of Scotland, Mount Desert Island Tomorrow, and other examples in the literature. In short, community development allows community members to frame issues, envision a preferred future, and carry out projects that move the community toward that preferred future.

Students will gain practical community skills in listening, designing effective meetings, facilitation, framing complex public issues, project planning and development of local policy. Readings, discussions and guests will introduce students to community development theory and practice. Class projects will be connected to community issues on Mount Desert Island including the areas of community design/land use planning, transportation, community health, housing, economic development, the arts and youth empowerment. Short written papers will provide opportunity to reflect on class content, community meetings, newspaper stories and reading assignments. This class is designed to include both COA students and community members.

Evaluation will be based on preparation for and participation in class discussion, several short papers, participation in field work, and contribution to a successful group project.

AD	2010	IM	Problems in Painting: Techniques, Skills and Vision					
HS	1040	I	Publics Speaking Workshop					
HS	4042	MA	Reading the West		1			

The spectacular range of habitats between the Pacific Ocean and the Great Basin and Sonoran Deserts has generated some of the most significant "place-based" writing within American literature.

In this intensive field-based course students will be required to read a range of materials dealing with key places, people, and events in the western landscape during the summer prior to the formal start of the course. The class will then convene in California and begin a trek eastwards into the Great Basin Desert, south to the Carson/Iceberg Wilderness, Yosemite, the Hetch Hetchy Valley and Mono Lake, and then finally southeastward across the Sonoran desert to Albuquerque, New Mexico, where students and faculty will participate in a conference celebrating the first 50 years of the Wilderness Act.

Readings will include work by Muir, Didion, Steinbeck, and Fremont. Evaluation will consist of class participation, a series of essays and journal essays, and a final term paper that will be completed following the end of the field portion of the course. This course will be integrated with and requires co-enrollment in Ecology and Natural History of the American West, and Wilderness in the West.

HS	2050	IM	Religious Intolerance in the United States	
HS	5036	А	Russia and International Security	

ES	3063	М	Seminar in Climate Change	1	
In this :	seminar-styl	e class, s	students will learn about climate change over multiple time	scales.	I
timesca today to	ales, both nat	ural and a d understa	ings driving global climate fluctuations - on both long (millions o inthropogenic in nature. Students will learn about the main pale and past climates over tens to millions of years. We will also disc s.	oclimate methodolog	gies being used
paleocli discuss	imate method	ls, modeli broader ii	cientific literature to broadly explore some of the major topics re ng, feedbacks, atmosphere-ocean interaction, and predicted en npacts of climate change (stresses on resources, water, food, e se.	vironmental change	es. We will
			students will be required to attend lectures by a few visiting experience to a term.	erts in the field. Stud	dents will take
Assess	ment will be t	based on	written responses to readings and a final project and presentation	on.	
HS	3029	М	Shakespeare: Character, Conflict and Cinematography		
ES	3048	М	Soils		1
The prir Classes transfor	mary themes s will cover th m them.	running tl e basic pl	e students to basics of soils science and contemporary issues in prough this course are how soil properties influence and are infl hysical, chemical, and biological properties of soils and the proc based on quizzes, problem sets and a final presentation.	uenced by human a	ctivities.
HS	3062	М	Solutions		
AD	3014	М	Soundscape		
ES	5024	А	South American Earth Systems		1
We will process land use	discuss proc ses include pl e (agriculture	esses for ate tector , water ar	umber of Earth Systems shaping a portion of the longest m ming the Andes Mountains on timescales spanning millions of y nics, erosion (glacial, wind, river), active faulting, regional climate ad mining), and geohazards (earthquakes, volcanoes, and lands in the Cordillera Blanca region of northern Peru.	ears to tens of year e patterns (ENSO, ç	s! Some of these glacial cycles),
Student	ts will read pr gh not require	imary scie	entific literature and become "experts" in some area that fascina	tes them. The cours	se capstone

Who should take this course: You must have taken at least one of the other geology courses (or equivalent) to take this course.

In this course we will attempt to synthesize various Earth System datasets focused on a specific location. The field component of this course is an opportunity to 1) practice basic geology field tools, 2) experience world-class geological and ecological field sites, and 3) enjoy a cultural experience (practice your Spanish!). The field trip will not be a vacation—it will be physically, mentally, and emotionally demanding!

AD	4019	MA	Studio Printmaking	
ED	3012	М	Supporting Students with Disabilities in the Reg. Classroom	
HS	2030	IM	Systems Dynamics	
HS	4019	MA	Technical Writing	
ES	3036	М	The History of Natural History	
AD	1017	I	The History of Rock	
HS	3028	М	The Mystics	
HS	5018	А	The Nature of Narrative	
HS	5028	А	The Nature of Narrative II	
HS	1026	I	The Renaissance and the Reformation	
AD	4016	MA	The Wilderness in Landscape Art I: Proto-Ecological Visions	1

This course is concerned with the visualization of what is wild in the landscape and how artists pictured that which others saw as untamed.

Course readings will engage with a variety of texts written by art historians, geographers, historians, writers, and theoreticians that address the invention of the modern idea of wilderness.

Assumptions governing what constitutes wilderness and how artists have shaped our perception of it are among topics which we will consider. Landscapes contain life that seems to fluctuate between haggard or feral states of nature. We will investigate how an artist distinguishes between that which is cultivated and that which is natural; what images evoke nostalgia for a lost past or suggest the preference for a human dominance over those origins we have isolated ourselves from.

Students will examine visual evidence in the fine arts that indicates a growing awareness of the effect of the Industrial Revolution in North America and in Europe. Although we look at ecologies through the eyes of artists, students interested in the science, history, and literature are encouraged to take the course.

Evaluation will be based on a research paper and class presentation. There will be a class trip to view art and/or sites relevant to our discussion.

HS	2054	IM	Theory and Method in the Study of Religion	
HS	2053	IM	This Changes Everything: Cases in Future Studies	1

This course examines strengths and weaknesses of different ways of dealing with the future by looking in depth at two case studies: climate change and artificial intelligence.

When dealing with potential existential threats of these sorts, what are the powers and limits of specific methods for trying to

know the future and/or act with regard to it? Of what use, for example, are tools such as trend spotting, extrapolation, quantitative modeling, prediction markets, SWOT analysis, imaging, narrative science fiction, scenario building, or Delphi processes of consensus? And what precisely are they useful for? Learning about the inevitability, probability or possibility of various futures? Or perhaps learning about ourselves our societies and the ways in which reality is currently constructed? And how can we frame meanings for our lives, our work, our communities and the social movements in which we may participate in order to act with integrity and hope in the face of pressing problems that are "wicked" in character and may call for dramatic transformations?

Readings on the climate change case study will focus on Naomi Klein's *This Changes Everything: Capitalism vs. the Climate* and critics of her work. Readings on artificial intelligence will include, for instance, James Barrat's *Our Final Invention* and selections by Ray Kurzweil and Peter Bostrum. Readings on Futures Studies as a field of study and the specific methods within it will include, for example, selections from James Dator's anthology, *Advancing Futures: Future Studies in Higher Education*, the Millenium Project's *State of the Future* and works by Alvin Toffler, John Naisbitt, Eliezer Yudkowsky and Elise Boulding, as well as articles from *The Futurist*. The course will include a weekend workshop in futures invention using methods developed by Warren Ziegler and Elise Boulding. This workshop will be open to public participation.

Members of the COA community interested in renewing the College curriculum are especially encouraged to participate. The course goals are to: 1.) increase students' understanding of the possible uses and limitations of the broad range of methods in Futures Studies; 2.) develop student's abilities to apply and critically assess others' applications of these methods in substantive cases dealing with wicked problems; and 3.) develop students insight into the complexities and possible ways of addressing issues related to climate change and developments in artificial intelligence.

Assignments will include a critical analysis paper on each of the two case studies, an in-class report on a Futures Studies/Action method, a reflective essay on the futures invention workshop, and a problem set on methods and their applications to the two case studies.

Evaluation will be based on the extent to which class participation and performance in the assignments demonstrates significant advance in achieving the three core goals of the course.

AD	1015	1	Two Dimensional Design I				
ES	3010	М	Understanding and Managing Group Dynamics				
HS	4047	MA	Waste				
HS	4043	MA	Wilderness in the West: Promise and Problems		1		

Wilderness has been the clarion call for generations of environmentalists. In a letter in support of the Wilderness Act, writer Wallace Stegner characterized the importance of wilderness as an essential "**part of the geography of hope.**"

That single phrase and the current controversy surrounding the concept of wilderness provide the central focus of our explorations of wilderness in western lands.

This course examines the question of wilderness from multiple perspectives in the hopes of providing an understanding of both the concept and real spaces that constitute wilderness. Through conversations with wilderness managers, field work, and experience in federally designated wilderness areas in National Parks, National Forests, Wildlife Refuges and on BLM lands, the course will also examine what "wilderness management" means on the ground in the varied landscapes of the western United States. In this context, we look at historical and contemporary accounts of the value of wilderness, ecological and cultural arguments for wilderness, and the legal and policy difficulties of "protecting" wilderness.

Considerable time is spent evaluating current criticisms of the wilderness idea and practice. The class will culminate at a week-long national conference celebrating the 50th anniversary of the Wilderness Act. The 50th Anniversary National Wilderness Conference provides an incomparable opportunity for students to hear from and interact with federal management agencies, academics, recreation experts, and environmental advocacy organizations.

Presenting their final course work at this conference will also give students an opportunity to share their ideas and to receive

valuable feedback from this sophisticated and well-informed audience of wilderness experts. Classwork emphasizes hands-on service-learning projects as well as reading, writing, and theoretical discussions.

Students will be evaluated on journal entries, contributions to the class discussions, response papers, engagement in field activities, questions in the field, and contributions to group work. This course will be integrated with and requires co-enrollment in Reading the West and Ecology and Natural History of the West.

ES	4036	MA	WIIdlife Ecology		1			
This course is intended to complement the overall sequence of classes developed with a focus on the landscape and ecology of the Northeast Creek Watershed and is intended to provide students with practical skills in observation, data collection, analysis, and presentation.								
It is particularly suitable for students wishing to pursue careers in field biology with federal or state agencies or land conservation NGOs. We will examine measures of distribution and abundance in animals and relate these to quantitative and qualitative measures of habitat complexity. Much of this class will be field based. Students will work in teams collecting data on vegetation structure and topography, trapping small mammals, and estimating abundance through mark/re-capture techniques, radio telemetry and game cameras.								
Data will be analyzed using simple statistics including ANOVA, regression analysis, and means-separation tests. Spatial components will be included in an on-going GIS for the watershed region. Readings will come from a text and primary sources. Students should expect to spend significant amounts of time outside of formal class meetings in data collection, analysis and write-up.								
Assessment will be based on participation, a number of quizzes, and an end-of term team report/presentation.								
ES	4012	MA	Winter Ecology		1			
In higher latitudes and higher altitudes of the world, up to nine months of each year can be spent locked in winter. Although migratory species appear to have a selective advantage over non-migratory species during the winter season, year-round resident animals have evolved a remarkable array of physiological, morphological, and behavioral adaptations that allow them to cope with potentially lethal environmental conditions.								
In this course, we focus on the special challenges of animals wintering in northern latitudes. Some of the topics that we address are: the physical properties of snow and ice, general strategies of animals for coping with sub-freezing temperatures, life in the subnivean environment, animal energetics and nutrition, physiological acclimatization, and humans and cold.								
There are two discussions/lectures and one field exercise every week, as well as two weekend field trips. Students should be prepared to spend a significant amount of time outdoors in winter conditions. Students are evaluated on class participation, exams, and a student term project.								

HS	4034	MA	World Literature			
HS	1043	I	Writing Seminar I: Exposition			
HS	2055	IM	Writing Seminar II: Argumentation			
HS	2021	IM	YUCATAN: Immersion Practica in Spanish and Yucatecan Culture			
HS	3055	М	YUCATAN: The Mayas of Yesterday and Today			

TOTALS	163	20	42
		0.1227	0.2577