SCHOOL OF GLOBAL ENVIRONMENTAL SUSTAINABILITY

GLOBAL ENVIRONMENTAL SUSTAINABILITY INTERDISCIPLINARY MINOR

Preparing today to make a difference for tomorrow

THE WORLD IS CHANGING

With a population of over seven billion people that is continuing to grow we need new ideas to address how we interact with our planet. How do we manage renewable resources to live within our planet's means? How do we provide education, meaningful work and sustenance for everyone? These are important questions everyone should be thinking about, no matter what major they are pursuing.

HOW WE INTERACT WITH EACH OTHER AND THE WORLD IS VERY COMPLEX

Individual problems of sustainability are rarely simple. The complex interactions among the society, the economy and the environment require solutions that cross boundaries and involve creative, innovative thought. Interdisciplinary problem solving is more and more the way science and engineering problems are solved.

WORKING TOWARDS SUSTAINABLE BUSINESSES, COMMUNITIES, AND THE ENVIRONMENT IS AN IMPORTANT GOAL

Companies, non-profit organizations, and researchers are increasing their focus on sustainable practices. To understand what sustainability means, how you can make society more sustainable, and how the environment influences you consider the Global Environmental Sustainability (GES) Minor.

THE MINOR IS AN IMPORTANT WAY TO BECOME INVOLVED IN YOUR FUTURE

The GES Minor is an interdisciplinary set of courses that allows you to build upon your major to understand the problems and solutions that we all face. Students take two required courses, GES 101 and the capstone, GES 470, along with five courses that they chose from a list of courses offered across campus. Classes come from four areas – Society and Social Processes, Biological and Physical Processes, Economy and Profitability, and Skills.

The School of Global Environmental Sustainability and the Student Sustainability Center have even more ways for you to connect. See more information regarding the minor at the SoGES Minor In Global Environmental Sustainability webpage or by contacting the SoGES academic coordinator at GESadvising@colostate.edu or (970) 492-4070.

SUSTAINABILITY.COLOSTATE.EDU
FACEBOOK.COM/GESMINOR | TWITTER: @GESMINOR | LINKEDIN: SoGES MINOR at CSU
INSTAGRAM: CSU.GES.MINOR

SCHOOL OF GLOBAL ENVIRONMENTAL SUSTAINABILITY
COLORADO STATE UNIVERSITY

SCHOOL OF GLOBAL ENVIRONMENTAL SUSTAINABILITY

INTERDISCIPLINARY MINOR IN GLOBAL ENVIRONMENTAL SUSTAINABILITY *CHECKSHEET*

The School of Global Environmental Sustainability is now proud to offer an interdisciplinary minor in Global Environmental Sustainability. The minor will provide students from across the University the opportunity to obtain a background in the interdisciplinary field of Global Environmental Sustainability including the physical and biological, economic, social and skills/methods pillars of sustainability.

REQUIRED GES COURSES

KEY - F: FALL, S: SPRING, (E)/(O) EVEN/ODD YEARS, SS: SUMMER SESSION, O: AVAILABLE ONLINE

	Course Code	Course Name	Offered	Credits	Prerequisites
☐	GES 101	Foundations of Env. Sustainability	F,S,O	3	
☐	GES 470	Applications of Env. Sustainability	F,S,O	3	GES 101, 15 credits of GES Minor Courses

GROUP A. SOCIETY & SOCIAL PROCESSES

SELECT ONE COURSE FROM THE FOLLOWING LIST

KEY - F: FALL, S: SPRING, (E)/(O) EVEN/ODD YEARS, SS: SUMMER SESSION, O: AVAILABLE ONLINE

	Course Code	Course Name	Offered	Credit	Prerequisites
☐	AGRI/IE 116	Plants and Civilizations	F,S	3	
☐	AGRI/PHIL 330	Agricultural Ethics	S	3	CO 150
☐	ANTH/GR 200	Cultures & the Global Systems	F,S,O	3	
☐	ANTH 330	Human Ecology	F,O	3	(ANTH 100 or ANTH 200) and (ANTH 120 or BZ 101 or LAND/LIFE 220)
☐	ANTH 415	Indigenous Ecologies & the Modern World	F,S,SS,O	3	
☐	ANTH 453	Impacts on Ancient Environments	F	3	ANTH 140
☐	ET 256	Border Crossings: People/Politics/ Culture	S	3	
☐	GR 100	Introduction to Geography	F,S,O	3	
☐	GR 320	Cultural Geography	F(O),O	3	GR 100
☐	HIST 355	American Environmental History	F	3	HIST 101 or HIST 150 or HIST 151 or HIST 171
☐	HIST 470	World Env. History, 1500-Present	F	3	3 CREDITS OF HIST; COMPLETION OF 45 CREDITS
☐	HORT/SOCR 424	Topics in Organic Agriculture	S(E)	3	AREC 202 or ECON 202; AREC 328; HORT 100 or SOCR 100; HORT 171/SOCR 171; SOCR 240
☐	NR 320	Natural Resources History & Policy	F,S,SS	3	
☐	NR 425	Nat. Resource Policy & Sustainability	S	3	NR 320
☐	PHIL 320	Ethics of Sustainability	F,S	3	
☐	PHIL 345	Environmental Ethics	F,S	3	SOPHOMORE STANDING OR HIGHER
☐	POLS 361	U.S. Environmental Politics & Policy	F,S,SS,O	3	POLS 101
☐	POLS 362	Global Environmental Politics	F,S,SS	3	POLS 232 or POLS 241
☐	POLS 364	Air, Climate, and Energy Policy Analysis	F(E)	3	POLS 101
☐	POLS 442	Env. Politics in the Developing World	F,S,SS	3	POLS 241
☐	POLS 462	Globalization, Sustainability, and Justice	F,S,SS	3	POLS 232 or POLS 241
☐	PSY316	Environmental Psychology	F,S, SS	3	PSY 100
☐	SOC 220	Global Environmental Issues	F,S	3	
☐	SOC 320	Population, Nat. Resources, & the Env.	F,O	3	SOC 100 or SOC 105
☐	SOC 322	Introduction to Environmental Justice	F,S	3	SOC 100 or SOC 105
☐	SOC 364	Agriculture, & Global Society	S	3	SOC 100 or SOC 105
☐	SOC 460	Society & Environment	F,S,SS	3	SOC 100 or SOC 105
☐	SOC 461	Water, Society, & the Environment	F,S,SS,O	3	SOC 100 or SOC 105
☐	SOC 463	Sociology of Disasters	S,O	3	SOC 100 or SOC 105

GROUP B. BIOLOGICAL & PHYSICAL PROCESSES *SELECT ONE COURSE FROM THE FOLLOWING LIST*

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	Course Code	Course Name	Offered	Credits	Prerequisites
☐	ANTH 453	Impacts on Ancient Environments	F	3	ANTH 140
☐	BSPM 308	Ecology and Management of Weeds	F	3	BZ 120 or LIFE 103; CHEM 107 or CHEM 111
☐	BZ 471	Stream Biology and Ecology	F(O)	3	LAND/LIFE 220 or LIFE 320
☐	CHEM 338	Environmental Chemistry	S(O)	3	(CHEM 113) and (CHEM 245 or CHEM 341 or CHEM 345)
☐	ERHS 320	Environmental Health Water Quality	F	3	MIP 300
☐	ERHS 430	Human Disease & the Environment	F	3	(BMS 300 or BMS 360) and (MIP 300) and (STAT 301 or STAT 307)
☐	ERHS 448	Env. Contaminants: Exposure & Fate	F	3	CHEM 245 or CHEM 341 or CHEM 345; LIFE 102
☐	GEOL 122	The Blue Planet: Geology of our Env.	F,S,SS	3	
☐	GR 100	Introduction to Geography	F,S,O	3	
☐	GR/ESS 210	Physical Geography	F	3	
☐	GR 410	Climate Change: Science, Policy, Impl.	S	3	3 CREDITS OF GR COURSE WORK
☐	HORT/SOCR 171	Environmental Issues in Agriculture	F	3	
☐	LAND/LIFE 220	Fundamentals of Ecology	F,O	3	3 CREDITS OF 100-LEVEL BIO or HORT 100; 3 CREDITS OF 100-LEVEL MATH
☐	LAND 364	Design & Nature	F	3	LAND 361
☐	LAND 444	Ecology of Landscapes	S	3	LAND 360; ONE COURSE IN BIOLOGY
☐	LIFE 320	Ecology	F,S,SS	3	BZ 101 or BZ 104 or BZ 110 or BZ 120 or LIFE 102; MATH 141 or MATH 155 or MATH 160
☐	MATH/BZ 348	Theory of Population & Evolutionary Ecology	F	3	MATH 155 or MATH 160
☐	NR 120A	Environmental Conservation	F,S,O	3	
☐	NR 130	Global Environmental Systems	F,S,SS	3	
☐	RS 351	Wildland Ecosystems in a Changing World	F	3	LAND/LIFE 220 or LIFE 320; SOCR 240
☐	SOCR 341	Soil Ecology	S	3	SOCR 240
☐	SOCR 343	Composting Principles & Practices	F	3	SOCR 240; SOCR 341; SOCR 342; SOCR 350
☐	SOCR 440	Pedology	F	3	
☐	WR/GR 204	Sustainable Watersheds	F,S	3	

GROUP C. ECONOMY, PROFITABILITY *SELECT ONE COURSE FROM THE FOLLOWING LIST*

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	Course Code	Course Name	Offered	Credits	Prerequisites
☐	AREC 202	Agricultural & Resource Economics	F,S,O	3	MATH 117 or 124 or 125 or 126 or 141 or 155 or 160
☐	AREC/ECON 240	Issues in Environmental Economics	F,S	3	
☐	AREC/ECON 340	Intro. Economics of Natural Resources	S,O	3	AREC 202 or ECON 202
☐	AREC/ECON 346	Economies of Outdoor Recreation	F	3	AREC 202 or ECON 202
☐	AREC 415	International Agricultural Trade	F,O	3	AREC 310; ECON 204
☐	AREC 442	Water Resource Economics	S	3	AREC 342; ECON 306
☐	AREC 460	Ag and Resource Based Econ. Development	S	3	ECON 306
☐	F322	Economics of the Forest Environment	S	3	AREC 202 or ECON 202 or AREC/ECON 240
☐	MGT 360	Social & Sustainability Venturing	S	3	JUNIOR STANDING OR HIGHER
☐	NR 425	Natural Resource Policy & Sustainability	S	3	NR 320

GROUP D. SKILLS *SELECT ONE COURSE FROM THE FOLLOWING LIST*

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	Course Code	Course Name	Offered	Credits	Prerequisites
☐	AREC 442	Water Resource Economics	S	3	AREC 342; ECON 306
☐	ART 421	Art and Environment		3	ART 136 and ART 160 and ART 170 and ART 200 to 299 - at least 6 credits
☐	CON/INTD 450	Travel Abroad - Sustainable Building	SS	3	
☐	CON 476	Sustainable Practice - Design and Construction	F	3	Contact instructor if interested and not in Construction Management Major
☐	HORT 344	Organic Greenhouse Production	S	1	HORT 310
☐	HORT/SOCR 345	Diag. & Treatment in Organic Fields	SS	2	BSPM 302 or BSPM 308 or BSPM 361; HORT 100 or SOCR 100; SOCR 240
☐	HORT/LAND 368	Landscape Irrigation and Water Cons.	F,S	3	HORT 100 or LAND 110
☐	LAND 364	Design and Nature	F	3	LAND 361
☐	MATH/BZ 348	Theory of Pop. & Evolutionary Ecology	F	3	MATH 155 or MATH 160
☐	NR 320	Natural Resource History & Policy	F,S	3	
☐	SOC 320	Population, Natural Resources, & the Env.	F	3	SOC 100 or SOC 105
☐	SOC 463	Sociology of Disasters	S,O	3	SOC 100 or SOC 105
☐	SOCR 440	Pedology	F	3	
☐	SOCR 478	Environmental Soil Science	S	3	SOCR 467; SOCR 470

UPPER DIVISION ELECTIVE COURSE

- Students must take an **upper division** elective course from Group A, B, C or D.
- The course must have a different subject code (e.g. AREC, NR, etc) than any course being used to satisfy the requirements of GROUPS A, B, C, or D or any GES course that is 300 or above.

GES MINOR INFORMATION

Students pursuing the GES Undergraduate Interdisciplinary Minor (IM) will be required to take GES 101 and GES 470. Further students must take 5 classes (15 credits), one each from group A, B, C, D plus an additional elective course from any single group. At least three classes from groups A, B, C and D must be taken from three different colleges. Some classes in the IM will fit into multiple groups. Such courses may only count towards one group. Students will not be allowed to take more than two classes with the same prefix throughout the entire minor (two courses with the same subject code is the max a student can take). Twelve of the 21 credits must be upper division (300 level or above) including GES470. GES 101 and 5 core courses are meant to be taken in sequence, meaning they should be taken before a student takes the GES 470. However, students must take GES 101 before taking GES 470.

TOTAL CREDITS FOR COMPLETION (MINIMUM OF 12 UPPER DIVISION CREDITS): **21 CREDITS**

CONTACT INFORMATION

For more information on the education programs and courses offered by the School of Global Environmental Sustainability, please contact Dale Lockwood, SoGES Academic Coordinator, at GESAdvising@colostate.edu or by calling (970) 492-4070.