

Spring 2012 MSU Environment Graduate Courses

Department	Course	Title	Professor	Credits
ADV	865	<u>Advertising and Society</u>	Kronrod	3
AEC	817	<u>Political Economy of Agriculture and Trade Policy</u>	Schweikhardt	3
AEC/ ACR/ EC/ FOR/ PRR/ FW	829	<u>Economics of Environmental Resources</u>	Anderson	3
AEC	851	<u>Agribusiness Operations Management</u>	Black/Wolf	3
AEC/ SCM	891	<u>Business, the Environment, and Sustainability</u>	Joshi	3
AEC/ EC/ FOR/ PRR/RD	925	<u>Advanced Natural Resource Economics</u>	Horan	3
AEC	930	<u>Dynamic Analysis in Agriculture and Natural Resources</u>	Myers	3
ANP/ FW/ FOR/ GEO/ RD/ SOC	859	<u>Gender, Justice, and Environmental Change: Methods and Application</u>	Rinkus	3
ANP	892-002	<u>Political Ecology</u>	Radonic	3
ANS/SOC	427	<u>Environmental Toxicology &amp; Society</u>		3
ANS	455	<u>Avian Physiology</u>	Balander	4
ANS	480	<u>Animal Systems in International Development (Overseas in Vietnam)</u>	Karcher	3
BE/FW/ZOL/PLB	443	<u>Restoration Ecology</u>		3
BE/ CSUS/ FOR/FW	452	<u>Watershed Concepts</u>	Bartholic	3
BE/ EEP/ PRR	460	<u>Natural Resource Economics</u>	Horan	3
BE/CHE	469	<u>Sustainable Bioenergy Systems</u>	Pan/Saffron	3
BE	475	<u>Ecological Engineering in the Tropics</u>	Reese/Reinhold	varies
BE	482	<u>Diffuse Source Pollution Engineering</u>	Reinhold	3
BE	815	<u>Instrumentation for Biosystems Engineering</u>	Guyer	3
BMB	961-003	<u>Plant Biotechnology for Health and Sustainability</u>	Benning/Sharkey	3
CAS	826	<u>Health Communication for Diverse Populations</u>	Lapinski-Lafaive	3
CAS	892	<u>Risk Communication</u>	Takahashi	3
CE	448	<u>Transportation Planning</u>	Ingle	3
CE/ ENE	485	<u>Landfill Design</u>	Qian	3
CE/ENE	487	<u>Microbiology for Environmental Science and Engineering</u>	Cupples	3
CE/ENE	489	<u>Air Pollution: Science and Engineering</u>		3
CE/ ENE	822	<u>Groundwater Modeling</u>	Li	3
CE/ENE	829	<u>Mixing and Transport in Surface Waters</u>		3
CJ	845-730	<u>Environmental Risk Perception and Decision Making</u>	Zwickle	3
CMP	491	<u>Green and Energy Efficient Residential Construction</u>	Metoyer	3
CMP	891	<u>Advanced Green and Efficient Residential Construction</u>	Metoyer	3

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COM	399-004	<u>Communication Topics in Risk and the Environment</u>	Hoffman	3
CSS/MMG	425	<u>Microbial Ecology</u>		3
CSS	431	<u>International Agricultural Systems</u>	Snapp	3
CSS/ZOL	445	<u>Evolution</u>		3
CSS/ FOR/ HRT	451	<u>Biotechnology Applications for Plant Breeding and Genetics</u>	Douches	3
CSS/BE/FOR/FW /CSUS	452	<u>Watershed Concepts</u>	Bartholic	3
CSS	455	<u>Pollutants in Soil and Water</u>	Boyd	3
CSS	805	<u>Herbicide Action &amp; Metabolism</u>	Penner	3
CSS/FOR/PLB/PL P/HRT	821	<u>Crop Evolution</u>		
CSS	865	<u>Environmental Fate of Organic Contaminants in Soils</u>	Boyd	3
CSS	880	<u>Scientific Communication and Professional Development</u>	Freed	1
CSS/ACR	892B	<u>Ecological Food and Farming Systems Seminar</u>		1
CSS	893	<u>Practical Analysis of Ecological Communities</u>	Guber	1
CSUS	433	<u>Grant Writing and Fund Development</u>	Foster	3
CSUS	447	<u>Community Economic Development</u>	Rosenbaum	3
CSUS/BE/CSS/F OR/FW	452-730	<u>Watershed Concepts</u>	Bartholic	3
CSUS/EEP	464	<u>Environment and Natural Resources Policy in Michigan</u>	Nelson	3
CSUS	473	<u>Social Entrepreneurship and Community Sustainability</u>	McCole	
CSUS	814	<u>Sustainable Tourism and Protected Area Management: Theories and Applications</u>	Vogt	3
CSUS	824	<u>Sustainable Development</u>	Robertson	3
CSUS	841	<u>Building and Implementing Watershed Management</u>	Bartholic	3
CSUS	842	<u>Watershed Assessment</u>	Bartholic	3
CSUS	843	<u>Watershed Laws and Regulations</u>	Bartholic	3
CSUS	848	<u>Community Based Natural Resource Management in International Development</u>	Lopez	3
CSUS/FW/ESP	851	<u>Modeling Natural Resources Systems</u>	Schmitt Olabisi	3
CSUS	854	<u>Agriculture and Social Movements</u>	Wright	3
CSUS	872	<u>Parks and Protected Areas Policy and Management</u>	Vogt	3
CSUS	814	<u>Sustainable Tourism and Protected Area Management: Theories and Applications</u>	Vogt	3
CSUS/ESP	851	<u>Modeling Natural Resources Systems</u>	Schmitt Olabisi	3
CSUS	891-003	<u>Food Ethics</u>		3
EC	829	<u>Economics of Environmental Resources</u>		3

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EC	925	<u>Advanced Natural Resource Economics</u>		3
EEP/ABM	405	<u>Corporate Environmental Management</u>	Joshi	3
EEP/CSUS	447	<u>Community Economic Development</u>		3
EEP/BE/PRR	460	<u>Natural Resource Economics</u>	Horan	3
EEP/CSUS	465	<u>Environmental Law and Policy</u>		
ENE/CE	487	<u>Microbiology for Environmental Science and Engineering</u>	Cupples	3
ENE/ CE	489	<u>Air Pollution: Science and Engineering</u>	Masten	3
ENE	801	<u>Dynamics of Environmental Systems</u>	Anctil, Mantha	3
ENE	806	<u>Lab Feasibility Studies for Environmental Remediation</u>	Hashsham	3
ENE/CU	822	<u>Groundwater Modeling</u>	Li	3
ENE	829	<u>Mixing and Transport in Surface Waters</u>	Mantha	3
ENE	890-601	<u>Selected Topics in Environmental Engineering: Traditional and Emerging in Situ Remediation</u>		3
ENT	848	<u>Biological Controls</u>	Delfosse	3
ESA/FOR	466	<u>Natural Resources Policy</u>		3
ESP	800	<u>Introduction to Environmental Science and Policy</u>	Ligmann-Zelinska/ W. Zhang	
ESP	802	<u>Human Systems and Environment</u>	Moran	3
ESP	804	<u>Environmental Application and Analysis</u>		3
ESP/CJ	845-730	<u>Environmental Risk Perception and Decision Making</u>	Zwickle	3
ESP/CSUS	851	<u>Modeling Natural Resources Systems</u>		3
ESP/SOC	883	<u>Multi-Equation Quantitative Models</u>		3
FOR	412	<u>Wildland Fire</u>	Chhin	2
FOR	833	<u>Human Dimension Forest Carbon</u>	Cooper	3
FOR	837	<u>Measuring and Monitoring Forest Carbon</u>	Skole	3
FW	410	<u>Upland Ecosystem Management</u>	Campa	3
FW	419	<u>Application of GIS to Natural Resources</u>	Montgomery	3
FW	439	<u>Conservation Ethics</u>	Elliott	3
FW/ZOL	443	<u>Restoration Ecology</u>		3
FW/ZOL	444	<u>Conservation Biology</u>		3
FW	479	<u>Fisheries Management</u>	Bremigan/Jones	3
FW	810	<u>Human Dimensions Research in Fisheries and Wildlife</u>		3
FW	840	<u>Landscape Ecology</u>	Cheruvellil/Roloff	3
FW	893-003	<u>Telling Your Story: Communicating Your Research to Diverse Audiences</u>	Burroughs/Dreelin/Latimore	1
FW/ ACR/ BE/ FOR/ GEO	419	<u>Application of GIS to Natural Resources</u>	Montgomery	4
FW/ BE/ ZOL	443	<u>Restoration Ecology</u>		3

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FW/ MC	445	<u>Biodiversity Conservation Policy and Practice</u>	Kramer	3
FW/ ZOL	444	<u>Conservation Biology</u>	Roloff	3
FW/MC	450	<u>International Environmental Policy</u>		
FW	454	<u>Environmental Hydrology</u>	Infante	3
FW/ ZOL	471	<u>Ichthyology</u>	Roth	4
FW/ ZOL	472	<u>Limnology</u>	Soranno	3
FW	479	<u>Fisheries Management</u>	Bremigan/Jones	3
FW	491	<u>Wildlife Policy</u>	Parent/Porter	3
FW	810	<u>Human Dimensions Research in Fisheries and Wildlife</u>		3
FW	840	<u>Landscape Ecology</u>	Cheruvellil/Roloff	3
FW	854	<u>Adaptive Management of Natural Resource Systems</u>	Jones	3
GEO	403	<u>Dynamic Meteorology</u>	Zhong	3
GEO	405	<u>Weather Analysis and Forecasting</u>	Winkler	4
GEO	407	<u>Regional Geomorphology of the U.S.</u>	Arbogast	3
GEO/ UP	413	<u>Urban Geography</u>	Darden	3
GEO	424	<u>Advanced Remote Sensing</u>	Lusch	4
GEO/ UP	425	<u>Problems in Geographic Information Science</u>	Shortridge	3
GEO	426	<u>Thematic Cartography</u>	Bianchetti	4
GEO	436	<u>Spatial Analysis of Population</u>	Grady	3
GEO	441	<u>Cultural Geography</u>	Baylis	3
GEO	453	<u>Metropolitan Environments</u>	Vojnovic	3
GEO	454-740	<u>GEO Environment &amp; Development</u>		
GEO	490	<u>Geography and Environmental Health</u>	Pearson	3
GEO	492	<u>Agro-climatological Measurement and Applications</u>	Andresen	3
GEO	492-002	<u>Geoprocessing</u>	Shortridge	3
GEO	816	<u>World System of Cities</u>	Vojnovic	3
GEO	873	<u>Seminar Human-Environment GEO</u>	Zulu	3
GEO	886	<u>Research Design in Geography</u>	Grady/Pearson	3
GEO	890	<u>Human Dimensions of Global Environmental Change</u>	Moral	varies
GEO	986	<u>Theory and Philosophy in Geography</u>	Pigozzi	3
GLG/GEO	412	<u>Glacial Geology-Climate Change</u>	Gottfried	3
GLG	421	<u>Environmental Geochemistry</u>	Long	4
GLG	431	<u>Sedimentology and Stratigraphy</u>	Brandt	4
GLG	470	<u>Principles of Modern Geophysics</u>	Fujita	3
HRT/FOR/CSS/P LB/PLP	820	<u>Plant Reproductive Biology and Polyploidy</u>	lezzoni	1
HRT/ CSS/ FOR	892	<u>Plant Breeding &amp; Genetics Seminar</u>	Douches	1

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JRN	472	<u>The Great Outdoors: Reporting on rivers and lakes, forests, wildlife and public lands for Great Lakes Echo</u>	Poulson	3
JRN	473/873	<u>Seminar in Environmental Journalism: No Respect for Boundaries: International comparisons of media coverage of environmental and health issues</u>	Takahashi	3
JRN	872	<u>Environmental Science and Health Reporting</u>	Poulson	3
LA	448	<u>Regional Environmental Design Studio</u>	Russcher	2
LA/ HED/ HRT/ PRR	817	<u>Environmental Design Studio</u>		3
LA/ HED/ HRT/ PRR	883	<u>Environmental Design Seminar</u>		3
MMG/CSS	425	<u>Microbial Ecology</u>	Dazzo/Kashefi/Walker	3
MMG	433	<u>Microbial Genomics</u>	Dodgson/Venta	3
MMG	803	<u>Topics in Integrative Microbial Biology</u>	Reguera	2
NSC	475-750	<u>Environmental Studies in Costa Rica</u>	Rasmussen	varies
NSC	475-752	<u>Natural Science in New Zealand</u>	McGuire/Pandolfi	varies
NSC	475-753	<u>Studies in Antarctic System Science</u>	Owen	varies
NSC	810	<u>Biological Science Transmission Electron Microscopy</u>	Withrow	3
NSC/ANR/SSC/V M	828	<u>Topics in Food Safety</u>		1
NSC/ AL	840	<u>Writing in the Sciences</u>	Snider	2
PHL	880	<u>Philosophy of Science</u>	Steel	4
PLB	415	<u>Plant Physiology: Growth, Development and the Environment</u>	Walton	3
PLB	418	<u>Plant Systematics</u>	Prather	3
PLB/BE/ZOL/FW	443	<u>Restoration Ecology</u>		3
PLB/CSS/ZOL	445	<u>Evolution</u>		3
PLB	802-001	<u>Evolution Discussion Group</u>	Conner	1
PLB	805	<u>Special Problems in Physiology and Biochemistry</u>		varies
PLB	806	<u>Special Problems in Genetics and Molecular Biology</u>		varies
PLB	809	<u>Special Problems in Ecology, Systematics, and Evolution</u>		varies
PLB/BMB/MMG	810	<u>Theories and Practices in Biology</u>	Shiu	3
PLB	849	<u>Evolutionary Biology</u>	Conner	3
PLB/ BMB/ CSS	856	<u>Plant Molecular and Omic Biology</u>	He/ Last/Takahashi	3
PLB/HRT	863	<u>Environmental Plant Physiology</u>	Flore/Telewski	3
PLP	405	<u>Plant Pathology</u>	Kirk/Rosenzweig	3
PLP/ENT/PLB	407	<u>Diseases and Insects of Forest and Shade Trees</u>	McCullough	4
PLP	812	<u>Epidemiology of Plant Diseases</u>	Jarosz	3

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PLP	894	<u>Seminar in Plant Pathology</u>	Hammerschmidt	varies
PRR	883	<u>Environmental Design Seminar</u>	Schutzki	varies
SOC	451	<u>Dynamics of Population</u>		varies
SOC	475	<u>Health and Society</u>	Cuthbertson	varies
SOC	852	<u>Migration and Social Change</u>	Mullan	3
SOC/ESP	883	<u>Multi-Equation Quantitative Models</u>	Marquart-Pyatt	3
UP	855	<u>Urban Sustainability and Climate Change</u>	P. Fan	3
UP	865	<u>Planning and Development Law</u>	Strauss	3
ZOL	425	<u>Cells and Development</u>	Bello-Deocampo	4
ZOL	895-001	<u>Evolution Discussion Group</u>	Conner	1
ZOL/ PLB/ FW	897	<u>Ecosystem Ecology and Global Change</u>	Hamilton	4
<b>Key:</b>				
ACR		Community, Agriculture, Recreation, and Resource Studies		
ADV		Advertising		
AEC		Agriculture, Food, and Resource Economics		
ANP		Anthropology		
ANS		Animal Science		
BE		Biosystems Engineering		
BMB		Biochemistry and Molecular Biology		
CAS		Communication Arts and Sciences		
CE		Civil Engineering		
CSS		Crop and Soil Sciences		
ENE		Environmental Engineering		
ENT		Entomology		
ESA		Environmental Studies and Applications		
ESP		Environmental Science and Policy Program		
FOR		Forestry		

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FW		Fisheries and Wildlife		
GEO		Geography		
GLG		Geological Sciences		
HED		Human Environment Design		
HRT		Horticulture		
JRN		Journalism		
LA		Landscape Architecture		
MC		Madison College		
MMG		Microbiology and Molecular Genetics		
MSE		Material Sciences and Engineering		
NSC		Natural Sciences		
PHL		Philosophy		
PHM		Pharmacology and Toxicology		
PKG		Packaging		
PLB		Plant Biology		
PLP		Plant Pathology		
PRR		Community, Agriculture, Recreation, and Resource Studies		
SME		Science and Math Education		
SOC		Sociology		
TC		Telecommunication		
UP		Urban Planning		
ZOL		Zoology		