

Fall 2015 MSU Environment Graduate Courses

Department	Course	Title	Professor	Credits	
ADV	865	<u>Advertising and Society</u>		3	x
AFRE (formerly AEC)	801	<u>Mathematical Applications in Economics</u>		3	x
AFRE (formerly AEC)	802	<u>Statistical Methods for Agricultural, Food and Resource Economics</u>		3	x
AFRE (formerly AEC)/EC	805	<u>Microeconomic Analysis</u>		3	x
AFRE (formerly AEC)/EC	810	<u>Institutional and Behavioral Economics</u>		3	x
AFRE (formerly AEC)	823	<u>Environmental Economics Methods</u>		3	x
AFRE (formerly AEC)	857	<u>Strategic Management in Agribusiness</u>		3	x
AFRE (formerly AEC)	861	<u>Agriculture in Economic Development</u>		3	x
AFRE (formerly AEC)	865	<u>Agricultural Benefit-Cost Analysis</u>		3	x
AFRE (formerly AEC)/EC/FOR	923	<u>Advanced Environmental and Resource Economics</u>		3	x
AFRE (formerly AEC)	932	<u>Information Economics and Institutions in Agriculture and Natural Resources</u>		3	x
ANP	858	<u>Gender, Justice, and Environmental Change: Issues and Concepts</u>		3	x
ANS/SOC	427	<u>Environmental Toxicology &amp; Society</u>		3	x
ANS	455	<u>Avian Physiology</u>		4	x
ANS	480	<u>Animal Systems in International Development (Overseas in Vietnam)</u>		3	x
ANR	826	<u>Principles of Scholarship: Integrity, Ethics and Research</u>		2	x
ANR	880	<u>Leadership and the Policy Process in Agriculture and Natural Resources</u>		3	x
BE/ CSUS/ FOR/FW	452	<u>Watershed Concepts</u>		3	x
BE/CE	468	<u>Biomass Conversion Engineering</u>		3	x
BE	481	<u>Water Resources Systems Analysis and Modeling</u>		3	x
BE	485	<u>Biosystems Design Techniques</u>		3	x
BE	881	<u>Ecohydrology</u>		3	x

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BMB	864	<u>Plant Biochemistry</u>		3	x
CAS	825	<u>Mass Communication and Public Health</u>		3	x
CE	421	<u>Engineering Hydrology</u>		3	x
CE/ENE	480	<u>Environmental Measurements Laboratory</u>		1	x
CE/ENE	481	<u>Environmental Chemistry: Equilibrium Concepts</u>		3	x
CE/ENE	483	<u>Water and Wastewater Engineering</u>		3	x
CE/ME	802	<u>Introduction to Dynamics and Earthquake Engineering</u>		3	x
CE	812	<u>Properties of Soils</u>		3	x
CE	813	<u>Soil Dynamics</u>		1	x
CE/ ENE	821	<u>Groundwater Hydraulics</u>		3	x
CE/ENE	829	<u>Mixing and Transport in Surface Waters</u>		3	x
CE	861	<u>Introduction to Risk and Reliability in Civil and Environmental Engineering</u>		1	x
CJ	821	<u>Food Protection and Defense</u>		3	x
CJ	847	<u>Global Risks, Conservation and Criminology</u>		3	x
CJ/FW//ANP//FOR/ GEO/SOC	858	<u>Gender, Justice, and Environmental Change: Issues and Concepts</u>		3	x
CMP	453	<u>Land Development</u>		3	x
CSS/ANS/HRT	424	<u>Sustainable Agriculture and Food Systems: Integration and Synthesis</u>		3	x
CSS	442	<u>Agricultural Ecology</u>		3	x
CSS/ZOL	445	<u>Evolution</u>		3	x
CSS/BE//FOR//FW /CSUS	452	<u>Watershed Concepts</u>		3	x
CSS	464	<u>Statistics for Biologists</u>		3	x
CSS	470	<u>Soil Resources</u>		3	x
CSS	480	<u>Soil Fertility and Management</u>		3	x
CSS	840	<u>Soil Physics</u>		3	x
CSS	842	<u>Population Genetics, Genealogy and Genomics</u>		3	x
CSS	853	<u>Plant Mineral Nutrition</u>		3	x
CSS/ACR	892B	<u>Ecological Food and Farming Systems Seminar</u>		1	x
CSS	921	<u>Geostatistics</u>		3	x
CSUS	425	<u>Environmental Impact Assessment</u>		3	x
CSUS	433	<u>Grant Writing and Fund Development</u>		3	x
CSUS	445	<u>Community-Based Environmental and Sustainability Education</u>		3	x
CSUS/BE/CSS/F OR/FW	452	<u>Watershed Concepts</u>		3	x

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CSUS/EEP	465	<u>Environmental and Natural Resources Law</u>		3	x
CSUS	476	<u>Natural Resource Recreation Management</u>		3	x
CSUS	800	<u>Foundations of Community Sustainability</u>		3	x
CSUS	811	<u>Community, Food and Agriculture: A Survey</u>		3	x
CSUS/LA	816	<u>Environmental Design Theory</u>		3	x
CSUS	826	<u>International Development Theory and Practice</u>		3	x
CSUS	841	<u>Building and Implementing Watershed Management</u>		3	x
CSUS	842	<u>Watershed Assessment and Tools</u>		3	x
CSUS	843	<u>Legal, Financial and Institutional Frameworks in Watershed Management</u>		3	x
CSUS	845	<u>Coastal and Maritime Resources Management</u>		3	x
EC	850	<u>Growth, Development and Human Resources</u>		3	x
EC/AFRE	924	<u>Advanced Environmental and Resource Economics</u>		3	x
EEP/ABM	405	<u>Corporate Environmental Management</u>		3	x
EEP/CSUS	465	<u>Environmental Law and Policy</u>		3	x
ENE/CE	421	<u>Engineering Hydrology</u>		3	x
ENE/CE	480	<u>Environmental Measurements Laboratory</u>		3	x
ENE/CE	481	<u>Environmental Chemistry: Equilibrium Concepts</u>		3	x
ENE/CE	483	<u>Water and Wastewater Engineering</u>		3	x
ENE	801	<u>Dynamics of Environmental Systems</u>		3	x
ENE	802	<u>Physicochemical Processes in Environmental Engineering</u>		3	x
ENE	804	<u>Biological Processes in Environmental Engineering</u>		3	x
ENE/CU	821	<u>Groundwater Hydraulics</u>		3	x
ENE	829	<u>Mixing and Transport in Surface Waters</u>		3	x
ENE/CE	861	<u>Introduction to Risk and Reliability in Civil and Environmental Engineering</u>		1	x
ENT	422	<u>Aquatic Entomology</u>		3	x
ENT	479	<u>Organic Pest Management</u>		3	x
ENT	851	<u>Molecular Entomology</u>		3	x
ESP	800	<u>Introduction to Environmental Science and Policy</u>			
ESP	801	<u>Physical, Chemical, and Biological Processes of the Environment</u>		3	x
ESP	803	<u>Human and Ecological Health Assessment and Management</u>		3	x
ESP/CJ	847	<u>Global Risks, Conservation and Criminology</u>		3	x
ESP	850	<u>Introduction to Environmental and Social Systems Modeling</u>		1	x
ESP	890	<u>Modeling Environmental and Social Systems</u>		2	x
FOR	404	<u>Forest Ecology</u>		3	x
FOR	406	<u>Applied Forest Ecology: Silviculture</u>		3	x

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FOR	414	<a href="#">Renewable Wood Products</a>		3	x
FOR	452	<a href="#">Watershe Concepts</a>		3	x
FOR	462	<a href="#">Forest Resource Economics and Management</a>		4	x
FOR	467	<a href="#">BioEnergy Feedstock Production</a>		3	x
FOR	472	<a href="#">Ecological Monitoring and Data Analysis</a>		3	x
FOR	802	<a href="#">Forest Science Research</a>		2	x
FOR	826	<a href="#">International Development Theory and Practice</a>		3	x
FOR	831	<a href="#">Forest Biogeochemistry and Global Climate Change</a>		3	x
FOR	833	Human Dimension Forest Carbon		3	x
FOR	840	<a href="#">Agroforestry Systems</a>		3	x
FOR	842	<a href="#">Population Genetics, Genealogy and Genomics</a>		3	x
FOR/FW	870	<a href="#">Spatial Ecology</a>		3	x
FOR/AFRE	923	<a href="#">Advanced Environmental and Resource Economics</a>		3	x
FW	413	<a href="#">Wildlife Research and Mangement Techniques</a>		3	x
FW	414	<a href="#">Aquatic Ecosystem Management</a>		3	x
FW	416	<a href="#">Marine Ecosystem Management</a>		3	x
FW	417	<a href="#">Wetland Ecology and Management</a>		3	x
FW	420	<a href="#">Stream Ecology</a>		3	x
FW/ENT	422	<a href="#">Aquatic Entomology</a>		3	x
FW	423	<a href="#">Principles of Fish and Wildlife Disease</a>		1	x
FW	424	<a href="#">Population Analysis and Management</a>		4	x
FW	435	<a href="#">Integrated Communications for the Fisheries and Wildlife Professional</a>		3	x
FW	452	<a href="#">Watershed Concepts</a>		3	x
FW	474	<a href="#">Field and Laboratory Techniques for Aquatic Studies</a>		3	x
FW	813	<a href="#">Democracy and Environment</a>		3	x
FW	842	<a href="#">Population Genetics, Genealogy and Genomics</a>		3	x
FW	847	<a href="#">Global Risks, Conservation and Criminology</a>		3	x
FW	854	<a href="#">Adaptive Management of Natural Resource Systems</a>		3	x
FW	868	<a href="#">Water Policy and Management</a>		3	x
FW	869	<a href="#">Community and Conservation</a>		3	x
GEO	408	<a href="#">Soil Geomorophology Field Study</a>		4	x
GEO	409	<a href="#">Global Climate Change and Variability</a>		3	x
GEO/ UP	414	<a href="#">Geography of Transportation</a>		3	x
GEO	418	<a href="#">The Ghetto</a>		3	x
GEO	423	<a href="#">Cartographic Design and Production</a>		4	x
GEO	432	<a href="#">Environmental Ethics</a>		3	x

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GEO	435	<u>Geography of Health and Disease</u>		3	x
GEO	472	<u>Ecological Monitoring and Data Analysis</u>		3	x
GEO	802	<u>Geospatial Technology</u>		3	x
GEO	820	<u>GIS and Management</u>		3	x
GEO	826	<u>Geocomputation</u>		3	x
GEO	827	<u>Digital Image Processing and Analysis</u>		4	x
GEO	858	<u>Gender, Justice, and Environmental Change: Issues and Concepts</u>		3	x
GEO	866	<u>Spatial Data Analysis</u>		4	x
GEO	868	<u>Spatial Regression and Modeling</u>		3	x
GLG	411	<u>Hydrogeology</u>		3	X
GLG/ZOL	434	<u>Evolutionary Paleobiology</u>		4	x
GLG	821	<u>Aqueous Geochemistry</u>		3	x
GLG	901	<u>Research Strategies and Methods</u>		1	x
HRT	417	<u>Sustainable Sites and Environmental Landscape Practices</u>			
HRT	424	<u>Sustainable Agriculture and Food Systems: Integration and Synthesis</u>		3	x
HRT	430	<u>Exploring Wines and Vines</u>		3	x
HRT	816	<u>Environmental Design Theory</u>		3	x
HRT	840	<u>Agroforestry Systems</u>		3	x
HRT	842	<u>Population Genetics, Genealogy and Genomics</u>		3	x
JRN	472	<u>Special Topics in Environmental Reporting</u>		varies	x
JRN	473/873	<u>Special Topics in Environmental, Health and Science Journalism</u>		varies	x
JRN	872	<u>Environmental Science and Health Reporting</u>		3	x
LA	446	<u>Regional Environmental Design</u>		3	x
LA	816	<u>Environmental Design Theory</u>		3	x
LA/ HED/ HRT/ PRR	817	<u>Environmental Design Studio</u>		3	x
LA/ HED/ HRT/ PRR	883	<u>Environmental Design Seminar</u>		3	x
MMG	445	<u>Microbial Biotechnology</u>		3	x
MMG	833	<u>Microbial Genetics</u>		3	x
MMG	837	<u>Human Molecular Genetics</u>		3	x
MMG	851	<u>Immunology</u>		3	x
MMG	855	<u>Molecular Evolution: Principles and Techniques</u>		3	x
NSC	810	<u>Biological Science Transmission Electron Microscopy</u>		3	x

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NSC/ANR/SSC/V M	828	<u>Topics in Food Safety</u>		1	x
NSC/ AL	840	<u>Writing in the Sciences</u>		2	x
PHL	442	<u>Ethics and Animals</u>		3	x
PHL	452	<u>Ethics and Development</u>		3	x
PLB	402	<u>Biology of Fungi</u>		3	x
PLB	441	<u>Plant Ecology</u>		3	x
PLB/CSS/ZOL	445	<u>Evolution</u>		3	x
PLB	485	<u>Tropical Biology</u>		3	x
PLB	801	<u>Foundations of Plant Biology</u>		3	x
PLB	812	<u>Principles and Applications of Plant Genomics</u>		3	x
PLB	851	<u>Statistical Methods for Ecology and Evolution</u>		3	x
PLB	855	<u>Molecular Evolution: Principles and Techniques</u>		3	x
PLB	864	<u>Plant Biochemistry</u>		3	x
PLB	896	<u>Population and Community Ecology</u>		4	x
SOC	451	<u>Dynamics of Population</u>		3	x
SOC	452	<u>Environment and Society</u>		3	x
SOC	463	<u>Food Fight: Politics of Food</u>		3	x
SOC	475	<u>Health and Society</u>		3	x
SOC	801	<u>Global Transformations</u>		3	x
SOC	858	<u>Gender, Justice, and Environmental Change: Issues and Concepts</u>		3	x
SOC	865	<u>Environmental Sociology</u>		3	x
SOC	974	<u>Social Attitudes</u>		3	x
UP	414	<u>Geography of Transportation</u>		3	x
UP	433	<u>Introduction to Environmental Planning</u>		4	x
UP	823	<u>Urban Land Management and the Environment</u>		3	x
UP	865	<u>Planning and Development Law</u>		3	x
UP	888	<u>The Sustainable and Climate Resilient City</u>		3	x
ZOL	415	<u>Ecological Aspects of Animal Behavior</u>		3	x
ZOL	420	<u>Stream Ecology</u>		3	x
ZOL	422	<u>Aquatic Entomology</u>		3	x
ZOL	434	<u>Evolutionary Paleobiology</u>		4	x
ZOL	445	<u>Evolution</u>		3	x
ZOL	446	<u>Environmental Issues and Public Policy</u>		3	x
ZOL	804	<u>Molecular and Developmental Neurobiology</u>		3	x
ZOL	805	<u>Animal Welfare Assessment</u>		3	x

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ZOL	851	<u>Statistical Methods for Ecology and Evolution</u>		3	x
ZOL	855	<u>Molecular Evolution: Principles and Techniques</u>		3	x
ZOL	896	<u>Population and Community Ecology</u>		4	x
<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			
FW		Fisheries and Wildlife			
GEO		Geography			
GLG		Geological Sciences			
HED		Human Environment Design			
HRT		Horticulture			
JRN		Journalism			
LA		Landscape Architecture			
MC		Madison College			

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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			