

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

Department	Course	Semester	Year	Title	Professor	Credits
ACR	823	Sp	Even years	<u>Contemporary Issues in Animal-Human Relationships</u>	Kalof	3
ACR	824	Sp	Annual	<u>Sustainable Development: Measuring Socio-Economic Wellbeing</u>	Richardson	3
ACR	828	Sp	Annual	<u>The Art and Craft of Public Policy Analysis</u>	Norris	3
ACR	833	Sp	Annual	<u>Program Evaluation in Agriculture and Natural Resources</u>	Suvedi	3
ACR/FOR/FW	841	Fa, Sp	Annual	<u>Building and Implementing Watershed Management Plans</u>	Bartholic	3
ACR/FOR/FW	842	Fa, Sp	Annual	<u>Watershed Assessments and Tools</u>	Bartholic	3
ACR	843	Fa, Sp, Su	Annual	<u>Legal, Financial and Institutional Frameworks in Watershed Management</u>	Bartholic	3
ACR	848	Sp	Annual	<u>Community Based Natural Resource Management in International Development</u>	Kerr	3
ACR/FOR	872	Sp	Odd years	<u>Parks and Protected Areas Policy and Management</u>	Propst	3
ACR	875	Sp	Odd years	<u>Tourism and Global Change</u>	Nicholls	3
ACR	876	Sp	Odd years	<u>Marketing Tourism, Leisure, and Natural Resources</u>	Vogt	3
ACR	891-001	Sp	Annual	<u>Technology, Ethics, and Sustainability Science.</u>	Thompson	3
ACR	891-004	Sp	Annual	<u>Ecolabels and Sustainability</u>	Howard	3
ADV	865	Sp	Annual	<u>Advertising and Society</u>	Vandenbergh	3
ADV	892-003	Sp	Annual	<u>Social Marketing</u>	Paek	3
AEC/ ACR/ EC/ FOR/ PRR/ FW	829	Sp	Annual	<u>Economics of Environmental Resources</u>	Batie	3
AEC	865	Sp	Annual	<u>Agricultural Benefit-Cost Analysis</u>	Crawford	3
AEC/ SCM	891-002	Sp	Annual	<u>Business, the Environment, and Sustainability</u>	Joshi	3
AEC/ EC/ FOR/ PRR/RD	925	Sp	Annual	<u>Advanced Natural Resource Economics</u>	Horan	3
AEC	930	Sp	Annual	<u>Dynamic Analysis in Agriculture and Natural Resources</u>	Myers	3
ANP/ FW/ FOR/ GEO/ RD/ SOC	859	Sp	Annual	<u>Gender, Justice, and Environmental Change: Methods and Application</u>	Ferguson	3
ANR	491-002	Sp		<u>The History of the American Conservation Experience</u>	Rey	3
ANS	401	Sp	Annual	<u>Issues in Animal Agriculture</u>	Karcher/ Swanson	1

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

ANS	417	Sp	Annual	<u>Topics in Toxicology</u>	Bursian	1
ANS/ ENE/SOC	427	Sp	Odd years	<u>Environmental Toxicology and Society</u>	Chou	3
ANS	455	Sp	Annual	<u>Avian Physiology</u>	Balander	4
ANS	480	Fa, Sp	Annual	<u>Animal Systems in International Development</u>	Shelle	3
ANS/ ZOL	805-730	Fa, Sp	Annual	<u>Animal Welfare Assessment</u>	Siegford	3
BE	482	Sp	Annual	<u>Non-point Source Pollution Control</u>	Reinhold	3
BE	491-004	Sp	Annual	<u>Sustainable Bioenergy Systems</u>	Hodge/ Liao/ Saffron	3
BE	491-005	Sp	Annual	<u>Agricultural air emissions and control (ECOSEAM)</u>	Reese/ Safferman	3
BE	491-006	Sp	Annual	<u>Animal manure management and technology(ECOSEAM)</u>	Reese/ Safferman	3
BE	491-007	Sp	Annual	<u>Decentralized wastewater technology and management (ECOSEAM)</u>	Reese/ Safferman	3
BE	491-008	Sp	Annual	<u>Suburban/rural watershed interface modeling (ECOSEAM)</u>	Reese/ Safferman	3
BE	815	Sp	Annual	<u>Instrumentation for Biosystems Engineering</u>	Guyer	3
CAS	826	Sp	Annual	<u>Health Communication for Diverse Populations</u>	Lapinski/ Ndiaye	3
CAS	892-730	Sp	Annual	<u>Risk Communication Across Disciplines (online)</u>	Lindsey	3
CE	448	Sp	Annual	<u>Transportation Planning</u>	Lyles	3
CE	487	Sp	Annual	<u>Microbiology for Environmental Health Engineering</u>	Cupples	3
CJ	809-730	Sp	Annual	<u>Environmental Risk and Decision Making</u>	Rivers	3
CJ/ FW	809-731	Sp	Annual	<u>Corporate Environmental Crime and Risk</u>	Gibbs	3
CSS	431	Sp	Annual	<u>International Agricultural Systems</u>	Freed/ Snapp	3
CSS/ FOR/ HRT	441	Sp	Even years	<u>Plant Breeding &amp; Biotechnology</u>	Freed	3
CSS/ FOR/ HRT	451	Sp	Annual	<u>Biotechnology Applications for Plant Breeding and Genetics</u>	Douches	3
CSS	491	Sp	Annual	<u>Sustainable Agriculture and Food Systems Engagement.</u>		varies
CSS	802	Sp	Even years	<u>Weed Biology</u>	Renner	2
CSS/ GLG	825	Sp	Even years	<u>Clay Mineralogy and Soils Genesis</u>	Teppen	4
CSS	850	Sp	Annual	<u>Soil Chemistry</u>	Teppen	3

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

CSS	865	Sp	Even years	<u>Environmental Fate of Organic Contaminants in Soils</u>		3
CSS	892B	Fa, Sp	Annual	<u>Ecological Food and Farming Systems Seminar</u>		1
CSS/ FOR/ HRT	941	Sp	Even years	<u>Quantitative Genetics of Plant Breeding</u>	Wang	3
ENE	801	Sp	Annual	<u>Dynamics of Environmental Systems</u>	Mantha	3
ENE	806	Sp	Annual	<u>Lab Feasibility Studies for Environmental Remediation</u>	Hashsham	3
ENT/ CSS/ FOR/FW/ HRT	478	Sp	Even years	<u>Pest Management II: Biological Components of Management Systems</u>	Bishop	3
ESA	436	Fa, Sp	Annual	<u>Conservation Education Practice</u>	Elshoff	varies
ESA/ EEP	440	Sp	Annual	<u>Environmental and Natural Resource Policy in Michigan</u>	Nelson	3
ESA/ BE/ CSS/ FOR/FW/RD	452	Fa, Sp, Su	Annual	<u>Watershed Concepts (online)</u>	Bartholic	3
ESA/ BE/ EEP/ PRR	460	Sp	Annual	<u>Natural Resource Economics</u>	Norris	3
ESA/ CSS/ PRR/ RD	480-750	Sp	Annual	<u>Environmental Science and Policy in New Zealand</u>	Schultink	varies
ESP	802	Sp	Annual	<u>Human Systems and Environment</u>	Kaplowitz/ Walker	3
FOR	406	Sp	Annual	<u>Silviculture</u>	Chhin	4
FOR	461	Sp	Annual	<u>Urban Forestry</u>		
FOR/ FW/ PRR/ RD	466	Sp	Annual	<u>Natural Resource Policy</u>	Leefers	3
FOR/ RD	866	Sp	Odd years	<u>Economics of Renewable Resources</u>	Yin	3
FW	410	Sp	Annual	<u>Upland Ecosystem Management</u>	Campa	3
FW/ ACR/ BE/ FOR/ GEO	419	Sp	Annual	<u>Application of GIS to Natural Resources</u>	Montgomery	4
FW/ LB	438	Sp	Annual	<u>Philosophy of Ecology</u>	Nelson	3
FW/ BE/ ZOL	443	Sp	Annual	<u>Restoration Ecology</u>	Urquhart	3
FW/ MC	445	Sp	Annual	<u>Socio-economics and Policy of Conservation Biology</u>	Kramer	3
FW/ ZOL	471	Sp	Annual	<u>Ichthyology</u>	Roth	3
FW/ ZOL	472	Sp	Annual	<u>Limnology</u>	Soranno	3
FW	479	Sp	Annual	<u>Fisheries Management</u>	Irwin	3
FW/ MC	481	Sp	Annual	<u>Global Issues in Fisheries and Wildlife</u>	Taylor	3

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

FW	810	Sp	Even years	<u>Human Dimensions Research in Fisheries and Wildlife</u>	Gore	3
FW	824	Sp	Even years	<u>Analysis of Wildlife Populations</u>	Winterstein	3
FW	879	Sp	Even years	<u>Advanced Limnology</u>	Soranno	3
FW/ PLB	891/803	Sp	Annual	<u>Ecology and Evolution of Biological Invasions</u>		1
FW	893-001	Sp	Annual	<u>Biology of Stress</u>	Murphy/ Owen	1
FW	893-002	Sp	Annual	<u>Foundations and Frontiers of Stream Ecology</u>	Infante	1
FW	893-003	Sp	Annual	<u>Outreach, Engagement, and Extension.</u>	Habron	1
GEO	403	Sp	Annual	<u>Dynamic Meteorology</u>	Zhong	3
GEO	405	Sp	Annual	<u>Weather Analysis and Forecasting</u>	Winkler	4
GEO/ UP	413	Sp	Annual	<u>Urban Geography</u>	Darden	3
GEO	424	Sp	Annual	<u>Advanced Remote Sensing</u>	Lusch	4
GEO/ UP	425	Sp	Annual	<u>Problems in Geographic Information Science</u>	Zulu	3
GEO	435	Sp	Annual	<u>Geography of Health and Disease</u>	Grady	3
GEO	436	Sp	Annual	<u>Spatial Analysis of Populations</u>	Grady	3
GEO	440	Sp	Even years	<u>Critical Geopolitics</u>	Evered	3
GEO	453	Sp	Annual	<u>Metropolitan Environments: Urban Forms and Land Uses</u>	Vojnovic	3
GEO	454	Sp	Annual	<u>Geography of Environment and Development</u>	Simmons	3
GEO	459	Sp	Even years	<u>Tourism in Regional Development</u>	Nicholls	3
GEO	492-002	Sp	Annual	<u>Fluvial Geomorphology</u>	Arbogast	3
GEO	873	Sp	Annual	<u>Seminar in Human - Environmental Geography</u>	Simmons	3
GEO	890-001	Sp	Annual	<u>Human-Environment Modeling with Agent-Based Modeling Focus</u>	Ligmann- Zelinska	3
GEO	892-001	Sp	Annual	<u>Monitoring the Biosphere from Space.</u>	Qi	3
GLG/ GEO	412	Sp	Annual	<u>Glacial Geology and the Record of Climate Change</u>	Larsen	4
GLG	421	Sp	Annual	<u>Environmental Geochemistry</u>	Long	4
GLG	431	Sp	Annual	<u>Sedimentology and Stratigraphy</u>	Hampton	4
GLG	471	Sp	Annual	<u>Applied Geophysics</u>	Van Dam	4
GLG/ CE	811	Sp	Annual	<u>Advanced Hydrogeology</u>	Hyndman	3

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

HRT	413	Sp	Even years	<u>Sustainable Landscape Practices</u>	Rowe	1
HRT/ FOR	480	Sp	Annual	<u>Woody Plant Physiology</u>	Cregg/ Flore	3
HRT/ CSS/ FOR	892	Fa, Sp, Su	Annual	<u>Plant Breeding &amp; Genetics Seminar</u>	Douches et al.	1
JRN	476-001	Sp	Annual	<u>Producing an Environmental Documentary Television Program</u>	d'Aria	3
JRN	808-001	Sp	Annual	<u>Environmental Journalism</u>	d'Aria	3
JRN	812	Sp	Annual	<u>Advanced Environmental Writing</u>	Detjen	3
LA/ HED/ HRT/ PRR	817	Sp	Annual	<u>Environmental Design Studio</u>	Rauhe	3
MMG/ CSS	425	Sp	Annual	<u>Microbial Ecology</u>	Lennon/ Walker	3
MMG	433	Sp	Annual	<u>Microbial Genomics</u>	Britton	3
MMG	803	Fa, Sp	Annual	<u>Topics in Integrative Microbial Biology</u>	Schmidt	2
NSC	830	Sp	Annual	<u>Nature and Practice of Science</u>	Miller	1
NSC/ AL	840	Sp	Annual	<u>Writing in the Sciences</u>	Snider	2
PHL	484	Sp	Annual	<u>Philosophy of Biological Science</u>	Pennock	3
PHL	880-001	Sp	Annual	<u>Seminar in Philosophy of Science: Values and Scientific Evidence</u>	Steel	varies
PLB	415	Sp	Annual	<u>Plant Physiology: Growth, Development and the Environment</u>	Walton	3
PLB	418	Sp	Annual	<u>Plant Systematics</u>	Prather	3
PLB	434	Sp	Odd years	<u>Plant Structure and Function</u>	Koehler	4
PLB	802-001	Sp	Annual	<u>Evolution Discussion Group</u>	Conner	1
PLB	802-003	Sp	Annual	<u>From Analysis of Metabolism to Systems Biology</u>	Shachar-Hill	2
PLB	803	Sp	Annual	<u>Integrative Topics in Plant Biology</u>	Sang/ Shiu	varies
PLB/ ZOL	826	Sp	Annual	<u>Tropical Biology: An Ecological Approach</u>	Schemske	8
PLB/ ZOL	849	Sp	Annual	<u>Evolutionary Biology</u>	Conner/ Lenski/ Schemske	3
PLB/ BMB/ CSS	856	Sp	Annual	<u>Plant Molecular Biology</u>	He/ Last	3
PLP	405	Sp	Annual	<u>Plant Pathology</u>	Hammerschmidt/ Kirk	3

All MSU Graduate Courses Related to the Environment for Spring 2010:  
 Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

PLP/ ENT/ PLB	407	Sp	Annual	<u>Diseases and Insects of Forest and Shade Trees</u>	Adams/ McCullough	4
PLP/ PLB	847	Sp	Even years	<u>Advanced Mycology</u>	Adams	4
PLP	894	Sp	Annual	<u>Seminar in Plant Pathology</u>	Hammerschm idt	1
PRR	448	Sp	Annual	<u>Foundations of Natural Resource Based Recreation Management</u>	Propst	3
PRR	451	Sp	Annual	<u>Park Interpretive Services and Visitor Information Systems</u>	Vanderstoep	3
SME	870	Sp	Annual	<u>Teaching College Science</u>	Parker	2
SOC	851	Sp	Even years	<u>Demography and Public Health</u>	Johnson	3
SOC	868	Sp	Even years	<u>Science, Technology, Medicine and Society</u>	Ganchoff	3
UP	458	Sp	Even years	<u>Housing and Real Estate Development</u>	Hamlin	3
UP	801	Sp	Annual	<u>Concepts and Issues in Planning and Development</u>	Fan	4
UP	844	Sp	Annual	<u>Decision Theory for Urban Planning and Development</u>	Norman	4
UP	865	Sp	Annual	<u>Planning and Development Law</u>	Strauss	3
ZOL	415	Sp	Annual	<u>Ecological Aspects of Animal Behavior</u>	Getty	3
ZOL/ PLB	445	Sp	Annual	<u>Evolution</u>	Williams	3
ZOL	453	Sp	Annual	<u>Field Studies in Marine and Estuarine Biology</u>	Hill	varies
ZOL	457	Sp	Annual	<u>Foundations of Evolutionary Biology</u>	Atkinson	3
ZOL/GLG	824	Sp	Annual	<u>Stable Isotope Biogeochemistry</u>	Ostrom	2
ZOL/ FW/ PLB	897	Sp	Annual	<u>Ecosystem Ecology</u>	Hamilton	4
<b>Summer Courses (listed by request)</b>						
ANR	493	Su	Annual	<u>Natural Resources and Policy Course with Paid Internships</u>	Rey/ Millenbah	3
CSS	893-431	Su	Annual	<u>Methods in Soil and Plant Ecology for Sustainable Systems (at Kellogg Biological Station)</u>	Snapp	3
ENT/FW	469	Su	Annual	<u>Biomonitoring of Streams and Rivers</u>	Merritt/ Kaufman	3
FW	480-753	Su	Annual	<u>Madagascar, An Island Apart: Culture and Natural Resources.</u>	Gore/ Rasmussen	6

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

MMG/ CSS/ GLG/ZOL	426-431	Su	Annual	<u>Biogeochemistry (Kellogg Biological Station)</u>	Lennon/ Hamilton/	3
PHL	480	Su	Annual	<u>Philosophy of Science</u>	Bellon/ Pennock/ Smith	4
ZOL/ PLB	440-431	Su	Annual	<u>Field Ecology and Evolution (Kellogg Biol Station)</u>	Mittelbach/ Conner	4
ZOL/ ENT/ PLB	485	Sp, Su	Annual	<u>Tropical Ecology</u>	Urquhart	3
ZOL/ CSS/ PLB	891	Su	Annual	<u>"Eminent Ecologists" - Current Topics in Ecology and Evolution</u>	Gross et al.	varies
<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					

All MSU Graduate Courses Related to the Environment for Spring 2010:  
Includes only courses open to students from multiple departments... Cross-listed courses listed by host department...

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			
RD	Community, Agriculture, Recreation, and Resource Studies			
SME	Science and Math Education			
SOC	Sociology			
UP	Urban Planning			
ZOL	Zoology			