

## ENVIRONMENTAL ECONOMICS AND POLICY CURRICULUM REQUIREMENTS

*These requirements apply to all students entering the major after August 1, 2010*

CORE COURSES (27 Credits)	Cr	Prerequisites	Semesters Offered		
			F	Sp	Su
<b>All of the following:</b>					
EEP 255 Ecological Economics	3	None	✓		
EEP 260 World Food, Population and Poverty	3	None	✓		
EEP 320 Environmental Economics	3	EEP 255		✓	
EEP 404 Public Sector budgeting and Program Evaluation	3	Completion of Tier I writing requirement		✓	
EEP 405 Corporate Environmental Management	3	EEP 255 or MGT 315 or MGT 325		✓	
ESA 430 Law and Resources	3	ESA 200 or EEP 255 or approval of dept. Restricted: juniors or seniors	✓		
ESA 440 Environmental Policy Making in Michigan	3	ESA 200 or EEP 255 or approval of department		✓	
ESA/EEP 460 Natural Resource Economics	3	EC 201 and (ESA 302 or EEP 255)		✓	
ESA/EEP 470 Theory and Practice in Community Economic Development	3	EC 201 or EC 202		✓	
OTHER REQUIRED COURSES (29-32 Credits)	Cr	Prerequisites	F	Sp	Su
<b>All of the following:</b>					
ACC 230 Survey of Accounting Concepts	3	None; not open to freshmen	✓	✓	✓
CSE 101 Computing Concepts/Competencies (spreadsheet track preferred)	3	None	✓	✓	✓
EC 201 Introduction to Microeconomics	3	None	✓	✓	✓
EC 202 Introduction to Macroeconomics	3	None	✓	✓	✓
GEO 221 Introduction to Geographic Information Systems	3	None	✓	✓	✓
<b>Choose one of the following:</b>					
EC 335 Taxes, Government Spending and Public Policy	3	EC 201 or EC 251H	✓		✓
EC 435 Public Expenditures	3	EC 251H or EC 301	✓		
<b>Choose one of the following:</b>					
GLG 201 The Dynamic Earth	4	None	✓	✓	
ISB 202* Applications of Environmental and Organismal Biology	3	((MTH 103 or concurrently) or (MTH 110 or concurrently) or (MTH 116 or concurrently) or (LB 118 or concurrently) or (MTH 112 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)) or designated score on Mathematics Placement test	✓	✓	✓
<i>*ISB 202 can only be used one time either in the "Choose One category or in Integrative Studies</i>					
<b>Choose one of the following:</b>					
MTH 116 College Algebra & Trigonometry	5	MTH 1825 or designated placement test score	✓	✓	✓
MTH 103 College Algebra	3	MTH 1825 or designated placement test score	✓	✓	✓
PLUS MTH 114 Trigonometry	3	MTH 103	✓	✓	✓
Any math course higher than MTH 116	3	Check individual course prerequisites			

<b>Choose one of the following:</b>					
<b>STT 200</b> Statistical Methods	3	(MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LB 118) or designated score on Mathematics Placement test	✓	✓	✓
<b>STT 201</b> Statistical Methods	4	(MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LB 118) or designated score on Mathematics Placement test	✓	✓	✓
<b>STT 315</b> Introduction to Statistics and Probability of Business	3	MTH 124 or MTH 132 or MTH 152H or LB 118	✓	✓	✓

Semesters Offered

<b>PROFESSIONAL ELECTIVES (15 Credits)</b>	cr	Prerequisites	F	Sp	Su
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These will be chosen from the following list supplemented by approved courses in applied environmental economics and policy areas. Courses must be approved in writing by advisor. Students interested in focusing on Environmental Economics, Environmental Policy, Environmental Science or graduate school should select from courses listed below. For additional courses see electives for the Environmental Economics Specialization.

**ENVIRONMENTAL ECONOMICS:**

<b>ABM 400</b> Public Policy Issues in Food and Agribusiness	3	ABM 100, Restricted to juniors or seniors		✓	
<b>EC 301</b> Intermediate Microeconomics*	3	EC 201 or MTH 124 or 132 or 152H and LB 118	✓	✓	✓
<b>EC 302</b> Intermediate Macroeconomics	3	EC 201 and EC 202	✓	✓	✓
<b>EC 340</b> Survey of International Economics*	3	(EC 201 or EC 251H) and (EC 202 or EC 252H)	✓	✓	✓
<b>EC 420</b> Introduction of Econometric Methods*	3	(EC 202 or EC 252H) and (EC 251H or EC 301) and (MTH 124 or MTH 132 or MTH 152H) and (STT 315 or STT 421 or STT 430 or STT 441)	✓	✓	✓
<b>EC 495</b> Economics of Poverty and Income Distribution	3	EC 251H or EC 301	✓		
<b>FOR 464</b> Natural Resources Economics and Social Science	3	(EC 201 or EC 202) and completion of Tier I writing requirement.	✓		
<b>FW 419</b> Applications of Geographic Information Systems to Natural Resources Mgt.	4	GEO 221		✓	
<b>GEO 113</b> Introduction to Economic Geography	3	None	✓	✓	
<b>GEO 415</b> Location Theory and Land Use Analysis	3	GEO 113 or UP 201	✓		
<b>GEO 425</b> Geographic Information Systems	4	GEO 325 or GEO 492		✓	
<b>MTH 124</b> Survey of Calculus with Applications I* ** *	3	(MTH 103 or MTH 116 or designated score on Mathematics Placement test	✓	✓	✓
<b>MTH 126</b> Survey of Calculus with Applications II*	3	MTH 124	✓	✓	✓
<b>MTH 132</b> Calculus I*	3	(MTH 103 and MTH 114) or (MTH 116) or designated score on Mathematics Placement test )	✓	✓	✓
<b>MTH 133</b> Calculus II*	4	MTH 132 or MTH 152H or LB 118	✓	✓	✓
<b>MTH 234</b> Multivariable Calculus	4	MTH 133 or MTH 153H or LB 119	✓	✓	✓
<b>MTH 314</b> Linear Algebra I	3	MTH 234 or MTH 254H or LB 220	✓	✓	✓
<b>EEO 453</b> Women and Work: Issues and Policy Analysis	3	Not open to freshmen or sophomores.		✓	
<b>EEO 490</b> Independent and Supervised Study	1-6	EEO 201 or EEO 255	✓	✓	✓
<b>EEO 493</b> Internship- 3 credits maximum (Must be approved in advance)	1-3		✓	✓	✓
<b>STT 430</b> Introduction to Probability and Statistics*	3	None	✓	✓	

\*\*MTH 124 can only be used once either to complete the math requirement or as a professional elective.

<b>ENVIRONMENTAL POLICY:</b>					
<b>ABM 400</b> Public Policy Issues in the Agri-Food System	3	<i>ABM 100, Restricted: Only juniors or seniors</i>		✓	
<b>EC 425</b> Law and Economics	3	<i>EC 251H or EC 301</i>	✓		
<b>EC 495</b> Economics of Poverty and Income Distribution	3	<i>EC 251H or EC 301</i>	✓		
<b>FOR 464</b> Natural Resources Economics and Social Science	3	<i>(EC 201 or EC 202) and completion of Tier I writing requirement.</i>	✓		
<b>FOR 466</b> Natural Resource Policy and Planning	3	<i>Restricted: Not open to freshmen or sophomores.</i>		✓	
<b>FW 419</b> Applications of Geographic Information Systems to Natural Resources Management	3	<i>None</i>		✓	
<b>GEO 415</b> Locations Theory and Land Use Analysis	4	<i>GEO 113 or UP 201</i>	✓		
<b>GEO 425</b> Geographic Information Systems	3	<i>GEO 325 or GEO 492</i>		✓	
<b>ISS 310</b> People and Environment	4	<i>ISS 210 or ISS 215 or ISS 220 or ISS 225 or ISS 230 or ISS 235</i>	✓	✓	✓
<b>PLS 310</b> Public Bureaucracy in the Policy Process	3	<i>None</i>	✓	✓	
<b>EEP 453</b> Women and work: Issues and Policy Analysis	3	<i>Not open to freshmen or sophomores.</i>		✓	
<b>EEP 490</b> Independent and Supervised Study in Environmental Economics and Policy	1-6	<i>EEP 201 or EEP 255</i>	✓	✓	✓
<b>EEP 493</b> Internship- 3 credits maximum (Must be approved in advance)	1-3	<i>None</i>	✓	✓	✓
<b>ESA 444</b> Pesticides, People and Politics	3	<i>Completion of Tier I writing requirement</i>	✓		
<b>SOC 452</b> Environment and Society	3	<i>Completion of Tier I writing requirement. SOC 452L concurrently</i>	✓		
<b>STT 430</b> Introduction to Probability and Statistics	3	<i>None</i>	✓	✓	
<b>ZOL 446</b> Environmental Issues and Public Policy	3	<i>Restricted: Not open to freshmen or sophomores.</i>	✓		
<b>ENVIRONMENTAL SCIENCE:</b>					
<b>BS 162</b> Organismal and Population Biology	3	<i>BS 161 or BS 181H or LB 145</i>	✓	✓	
<b>CE 280</b> Introduction to Environmental Engineering	4	<i>(CEM 141 or CEM 151 or LB 171) and ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently))</i>	✓	✓	
<b>CEM 141</b> General Chemistry*	4	<i>((MTH 103 or concurrently) or (MTH 110 or concurrently) or (MTH 116 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently) or or (LB 118 or concurrently)) or designated score on Mathematics Placement test</i>	✓	✓	✓
<b>CSS 210</b> Fundamentals of Soil and Landscape Science*	4	<i>None</i>	✓	✓	
<b>CSS 455</b> Pollutants in the Soil Environment	3	<i>(CEM 143) and completion of Tier I writing requirement.</i>	✓		
<b>ENT 319</b> Introduction to Earth System Sci.	3	<i>None</i>	✓		
<b>FW 211</b> Introduction to Gender and Environmental Issues	3	<i>Restricted: Not open to freshmen.</i>		✓	
<b>FW 364</b> Ecological Problem Solving	3	<i>((MTH 124 or concurrently) or (MTH 132 or concurrently) or (LB 118 or concurrently)) and (STT 224 or STT 231 or STT 421) and (ZOL 355 or BE 230)</i>		✓	
<b>FW 419</b> Applications of Geographic Information Systems to Natural Resource Management	3	<i>None</i>		✓	
<b>GEO 206</b> Physical Geography	3	<i>None</i>	✓	✓	✓
<b>GEO 324</b> Remote Sensing of the Environment	3	<i>None</i>	✓	✓	

<b>GEO 425</b> Geographic Information Systems	3	<i>GEO 325 or GEO 492</i>		✓	
<b>GLG 411</b> Hydrogeology	4	<i>Not open to freshmen or sophomores.</i>	✓		
<b>GLG 421</b> Environmental Geochemistry	4	<i>None</i>		✓	
<b>ESA 415</b> Environmental Impact Assessment	3	<i>ZOL 355 and ESA 320</i>	✓		
<b>STT 430</b> Introduction to Probability and Statistics*	4	<i>None</i>	✓	✓	
<b>ZOL 355</b> Ecology	3	<i>BS 162 or LB 144 or BS 182H</i>	✓	✓	✓
<i>*Highly recommended for persons planning to apply to a graduate program in environmental economics.</i>					
<b>UNIVERSITY INTEGRATIVE STUDIES (28 Credits)</b>	<b>Cr</b>	<b>Prerequisites</b>	<b>F</b>	<b>Sp</b>	<b>Su</b>
<b><i>All of the following:</i></b>					
<b>WRA 11X</b> Writing, Rhetoric & American Cultures (min 2.0 grade required or must take AL 201 with IAH 20X course)	4	<i>None</i>	✓	✓	✓
<b>IAH 20X – 210</b> (Arts & Humanities)	4	<i>Completion of WRA 11X with 2.0 grade</i>	✓	✓	✓
<b>IAH 211</b> or higher (Arts & Humanities)	4	<i>Completion of IAH 20X course</i>	✓	✓	✓
<b>ISS 2XX</b> (Social, Behavioral & Economic Sciences)	4	<i>None</i>	✓	✓	✓
<b>ISS 3XX</b> (Social, Behavioral & Economic Sciences)	4	<i>Completion of ISS 2XX course</i>	✓	✓	✓
<b>ISB 2XX</b> (Biological Science)  <i>*ISB 202 can only be used one time either in the "Choose One category or in Integrative Studies</i>	3	<i>((MTH 103 or concurrently) or (MTH 110 or concurrently) or (MTH 116 or concurrently) or (LB 117 or concurrently) or (MTH 106 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)) or designated score on Mathematics Placement test</i>	✓	✓	✓
<b>ISP 2XX</b> (Physical Science)	3	<i>(MTH 103 or MTH 110 or MTH 116 or LB 117 or (MTH 112 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 201 or concurrently) or (STT 200 or concurrently) or (STT 201 or concurrently)) or designated score on Mathematics Placement test</i>	✓	✓	✓
<b>ISB or ISP lab</b> (Science Lab)	2	<i>Completion of or concurrent enrollment in ISB or ISP course linked to the lab</i>	✓	✓	✓
<b>FREE ELECTIVES (18-21 credits needed to complete 120 total graduation credits)</b>					