

# ENVIRONMENTAL ECONOMICS AND POLICY CURRICULUM REQUIREMENTS

*These requirements apply to all students entering the major after August 1, 2013*

				Semesters Offered		
CORE COURSES (27 Credits)		Cr	Prerequisites	FS	SS	US
<b><u>All of the following:</u></b>						
EEP 255	Ecological Economics	3	EC 201	✓		
EEP 260	World Food, Population and Poverty	3	ABM 100 or EC 201 or EEP 255	✓		
EEP 320	Environmental Economics	3	EC 201 and EEP 255		✓	
EEP 404	Public Sector budgeting and Program Evaluation	3	(EC 201 and EC 202) and completion of Tier I writing requirement		✓	
EEP 405	Corporate Environmental Management	3	EEP 255 or MGT 315 or MGT 325		✓	
EEP 460	Natural Resource Economics	3	EC 201 and EEP 255		✓	
CSUS 447	Community Economic Development	3	EC 201 or EC 202 or CSUS 200		✓	
CSUS 464	Environmental and Natural Resource Policy in Michigan	3	CSUS 200 or EEP 255 or approval of department		✓	
CSUS 465	Environmental Law and Policy	3	CSUS 200 or EEP 255, open to juniors or seniors	✓		
OTHER REQUIRED COURSES (26-32 Credits)		Cr	Prerequisites	FS	SS	US
<b><u>All of the following:</u></b>						
ACC 230	Survey of Accounting Concepts	3	None; not open to freshmen	✓	✓	✓
CSS 110	Computer Applications Agronomy (or CSE 101 if previously taken)	2	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><u>Choose one of the following:</u></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) and completion of Tier I writing requirement	✓		
<b><u>Choose one of the following:</u></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	✓	✓	✓
<b><u>Choose one of the following:</u></b>						
MTH 103 Plus	College Algebra	3	(MTH 1825) or designated placement score on Mathematics Placement test	✓	✓	✓
MTH 124	Survey of Calculus I	3	(MTH 103 or MTH 116) or designated	✓	✓	✓

MTH 124	Survey of Calculus I	3	score on Mathematics Placement test (MTH 103 or MTH 116) or designated score on Mathematics Placement test	✓	✓	✓
<i>Any math course higher than MTH 124</i>		3	Check individual course prerequisites	✓	✓	✓
<b><u>Choose one of the following:</u></b>						
STT 200	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	✓	✓	✓
STT 201	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	✓	✓	✓
STT 315	Introduction to Statistics and Probability of Business	3	MTH 124 or MTH 132 or MTH 152H or LB 118	✓	✓	✓
Semesters Offered						

PROFESSIONAL ELECTIVES (15 Credits)		Cr	Prerequisites	FS	SS	US
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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:						
ABM 400	Public Policy Issues in Food and Agribusiness	3	ABM 100 or EC 201 or EC 202; Jr or Sr status		✓	
EC 301	Intermediate Microeconomics*	3	EC 201 or (MTH 124 or 132 or 152H and LB 118)	✓	✓	✓
EC 302	Intermediate Macroeconomics	3	(EC 201 or EC 251H) and EC 202	✓	✓	✓
EC 340	Survey of International Economics*	3	(EC 201 or EC 251H) and (EC 202 or EC 252H)	✓	✓	✓
EC 420	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 or LB 118) and (STT 315 or STT 421 or STT 430 or STT 441)	✓	✓	✓
EC 495	Economics of Poverty and Income Distribution	3	(EC 251H or EC 301) and completion of Tier I writing requirement	✓		
FW 419	Applications of Geographic Information Systems to Natural Resources Mgt.	4	GEO 221		✓	
GEO 113	Introduction to Economic Geography	3	None	✓	✓	
GEO 415	Location Theory and Land Use Analysis	3	GEO 113 or UP 201	✓		
GEO 425	Geographic Information Systems	4	(GEO 325 or GEO 802) and completion of Tier I writing requirement		✓	
MTH 124	Survey of Calculus with Applications I* **	3	(MTH 103 or MTH 116) or designated score on Mathematics Placement test	✓	✓	✓
MTH 126	Survey of Calculus with Applications II*	3	MTH 124	✓	✓	✓
MTH 132	Calculus I*	3	(MTH 103 and MTH 114) or (MTH 116 or designated score on Mathematics Placement test)	✓	✓	✓
MTH 133	Calculus II*	4	MTH 132 or MTH 152H or LB 118	✓	✓	✓
MTH 234	Multivariable Calculus	4	MTH 133 or MTH 153H or LB 119	✓	✓	✓
MTH 314	Matrix Algebra with Applications	3	MTH 133 or MTH 153H or LB 119	✓	✓	✓
EEP 490	Independent and Supervised Study	1-6	EEP 255	✓	✓	✓

EEP 493	Internship- 3 credits maximum (Must be approved in advance)	1-3	EEP 255	✓	✓	✓
STT 430	Introduction to Probability and Statistics*	3	(MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)	✓		
**MTH 124 can only be used once either to complete the math requirement or as a professional elective.						
<b>ENVIRONMENTAL POLICY:</b>						
ABM 400	Public Policy Issues in the Agri-Food System	3	ABM 100 or EC 201 or EC 202; Jr or Sr status		✓	
EC 425	Law and Economics	3	(EC 251H or EC 301) and completion of Tier I writing requirement	✓		
EC 495	Economics of Poverty and Income Distribution	3	(EC 251H or EC 301) and completion of Tier I writing requirement	✓		
FOR 466	Natural Resource Policy and Planning	3	Restricted: Not open to freshmen or sophomores.		✓	
FW 419	Applications of Geographic Information Systems to Natural Resources Management	3	GEO 221		✓	
GEO 415	Locations Theory and Land Use Analysis	4	GEO 113 or UP 201	✓		
GEO 425	Geographic Information Systems	3	(GEO 325 or GEO 802) and completion of Tier I writing requirement		✓	
ISS 310	People and Environment	4	ISS 210 or ISS 215 or ISS 220 or ISS 225 or ISS 230 or ISS 235 or MC 201	✓	✓	✓
PLS 310	Public Bureaucracy in the Policy Process	3	None	✓	✓	
EEP 490	Independent and Supervised Study in Environmental Economics and Policy	1-6	EEP 255	✓	✓	✓
EEP 493	Internship- 3 credits maximum (Must be approved in advance)	1-3	EEP 255	✓	✓	✓
SOC 452	Environment and Society	3	Not open to freshmen	✓		
STT 430	Introduction to Probability and Statistics	3	(MTH 234 or concurrently) or (MTH 254H or concurrently) or (LB 220 or concurrently)	✓	✓	✓
ZOL 446	Environmental Issues and Public Policy	3	Restricted: Not open to freshmen or sophomores.	✓		
<b>ENVIRONMENTAL SCIENCE:</b>						
BS 162	Organismal and Population Biology	3	BS 161 or BS 181H or LB 145	✓	✓	
CE 280	Introduction to Environmental Engineering	4	(CEM 141 or CEM 151 or LB 171) and ((MTH 132 or concurrently) or (MTH 152H or concurrently) or (LB 118 or concurrently))	✓	✓	
CEM 141	General Chemistry*	4	((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 (LB 118 or concurrently)) or designated score on Mathematics Placement test	✓	✓	✓
CSS 210	Fundamentals of Soil and Landscape Science*	4	None	✓	✓	
CSS 455	Pollutants in the Soil Environment	3	CEM 143 or CEM 251		✓	
CSUS 425	Environmental Impact Assessment	3	ZOL 355 and (GEO 325 or FW 419 or approval of department)	✓		
ENT 319	Introduction to Earth System Sci.	3	None	✓	✓	

<b>FW 211</b>	<b>Introduction to Gender and Environmental Issues</b>	3	Restricted: Not open to freshmen.	✓		
<b>FW 364</b>	<b>Ecological Problem Solving</b>	3	((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)	✓		
<b>FW 419</b>	<b>Applications of Geographic Information Systems to Natural Resource Management</b>	3	GEO 221	✓		
<b>GEO 206</b>	<b>Physical Geography</b>	3	None	✓	✓	✓
<b>GEO 324</b>	<b>Remote Sensing of the Environment</b>	3	GEO 221	✓	✓	
<b>GEO 425</b>	<b>Geographic Information Systems</b>	3	GEO 325 or GEO 802) and completion of Tier I writing requirement		✓	
<b>GLG 411</b>	<b>Hydrogeology</b>	4	Not open to freshmen or sophomores.	✓		
<b>GLG 421</b>	<b>Environmental Geochemistry</b>	4	GLG 201 and (CEM 141 or CEM 151 or CEM 181H or LB 171)		✓	
<b>STT 430</b>	<b>Introduction to Probability and Statistics*</b>	4	None	✓	✓	
<b>ZOL 355</b>	<b>Ecology</b>	3	BS 162 or LB 144 or BS 182H	✓	✓	✓

*\*Highly recommended for persons planning to apply to a graduate program in environmental economics.*

Semesters Offered

<b>UNIVERSITY WRITING AND INTEGRATIVE STUDIES (28 Credits)</b>		<b>Cr</b>	<b>Prerequisites</b>	<b>FS</b>	<b>SS</b>	<b>US</b>
<b><i>All of the following:</i></b>						
<b>WRA 110 - 150</b>	<b>Writing, Rhetoric &amp; American Cultures</b>	4	(WRA 1004) or designated score on English Placement test	✓	✓	✓
<b>IAH 201 – 210</b>	<b>(Arts &amp; Humanities)</b>	4	Completion of Tier I writing requirement	✓	✓	✓
<b>IAH 211 or higher</b>	<b>(Arts &amp; Humanities)</b>	4	Completion of IAH 20X course	✓	✓	✓
<b>ISB 2XX</b>	<b>(Biological Science)</b>	3	((MTH 103 or concurrently) or (MTH 110 or concurrently) or (MTH 116 or concurrently) or (LB 118 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	✓	✓	✓
<b>ISP 2XX</b>	<b>(Physical Science)</b>	3	(MTH 103 or MTH 110 or MTH 116 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	✓	✓	✓
<b>ISB or ISP Lab</b>	<b>(Science Lab)</b>	2	Completion of or concurrently enrollment in ISB or ISP course linked to the lab	✓	✓	✓
<b>ISS 2XX</b>	<b>(Social, Behavioral &amp; Economic Sciences)</b>	4	None	✓	✓	✓
<b>ISS 3XX</b>	<b>(Social, Behavioral &amp; Economic Sciences)</b>	4	Completion of ISS 2XX course	✓	✓	✓
<b>FREE ELECTIVES (18-24 credits needed to complete 120 total graduation credits)</b>						