SCIENCE, TECHNOLOGY, ENVIRONMENT AND PUBLIC POLICY MINOR

The minor in Science, Technology, Environment and Public Policy is open to all undergraduate students at Michigan State University and may be combined with any undergraduate major.

The Science, Technology, Environment and Public Policy Minor (STEPP) is a cross-collegiate endeavor bridging the strengths of James Madison College, Lyman Briggs College and the Department of Fisheries and Wildlife. STEPP will train you in public policy that relates to science, technological development, and environmental science to promote change, become social, political and scientific leaders, and formulate and implement public policy. Students can use STEPP to study public policy related to topics such as health care, biomedicine, the environment, space science, national security, bioethics, communications technology, sustainability, science and religion, public health, information technology, and science education.

The increasing complexity of scientific and technological issues challenges scientists and public policy makers alike. Solutions to these problems require interdisciplinary collaboration among technological, environmental, natural and social sciences, as well as the humanities. STEPP prepares future professionals to integrate these disciplines as policy-makers, policy analysts, or resource managers. It teaches students how to communicate with multiple audiences and become leaders in developing innovative science, technology, and environmental policies.

STEPP will allow interested students to pursue work in public policy as it relates to science, technology and the environment. This program 1) exposes students to the policy-making process at the local, state, national and international levels; 2) raises normative questions about issues like the role of scientists as experts, computers and privacy concerns, federal funding of science, genetic engineering, the role of the military in technological development, and issues in natural resources management; 3) examines historical trends and analyzes social relationships; 4) builds a strong understanding of scientific principles that can be used to formulate sound policy initiatives; and 5) facilitates links between policy-making and science, technology and the environment. Graduates of STEPP understand how policies are constructed at different levels of governance, and they possess the skills necessary to evaluate the merits of public policy that relates to issues of science, technology and the environment. STEPP produces professionals who are well prepared to synthesize information from multiple disciplines and integrate social and natural sciences in policy formulation and analysis. It also prepares students for graduate work in policy sciences, public health, environmental law, science and technology studies, and natural resource management.

STEPP Minor:

1. Science, Technology, Environment and Public Policy

One of the following courses:

LB	181	Introduction to Science, Technology, the Environment and Public Policy	3 credits
MC	181	Introduction to Science, Technology, the Environment and Public Policy	3 credits
FW	181	Introduction to Science, Technology, the Environment and Public Policy	3 credits

2. Science Applications

Any two natural science courses. Classes must be at the 200-level or above, consist primarily of natural science and not be integrative studies course. Students should check with STEPP coordinator to ensure that the particular course they chose will adequately fill the category.

3. Public Policy. Any two of the following courses:

ABM	400	Public Policy Issues in the Agri-Food System	3 credits
ABM	427	Global Agri-Food Industries and Markets	3 credits
ANR	250	Global Issues in Agriculture and Natural Resources	3 credits
EC	310	Economics of Developing Countries	3 credits
CSUS	464	Environmental and Natural Resource Policy in Michigan	3 credits
CSUS	465	Environmental and Natural Resource Law	3 credits
FOR	466	Natural Resource Policy	3 credits
FSC	421	Food Laws and Regulations	3 credits
FW	439	Conservation Ethics	3 credits
FW/MC 445		Biodiversity Conservation Policy and Practice	3 credits
FW/MC 450		International Environmental Law and Policy	3 credits
FW/MC 481		Global Issues in Fisheries and Wildlife	3 credits
FW	491	Special Topics in Fisheries and Wildlife	1-5 credits
LB	321A	Science and the Public - Arts and Humanities	4 credits
LB	321B	Science and the Public - Social Sciences (W)	4 credits
LB	322A	Advances in Science and Technology - Arts and Humanities (W)	4 credits
LB	322B	Advances in Science and Technology - Social Sciences (W)	4 credits
LB	326A	Medicine and Health - Arts and Humanities (W)	4 credits

3. Public Policy (continued)					
LB	326B	Medicine and Health - Social Sciences (W)	4 credits		
LB	355	Philosophy of Technology	4 credits		
MC	348	Educational Policy	4 credits		
MC	361	Political Economy and Comparative Public Policymaking	4 credits		
MC	363	Global Governance	4 credits		
MC	364	Policy Evaluation	4 credits		
MC	380	Social Policy	4 credits		
MC	469	Applied Public Policy Research Seminar	3 credits		

4. History, Philosophy, and Sociology of Science. Any two of the following courses:

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	EPI	390	Disease in Society: Introduction to Epidemiology and Public Health	4 credits
	FW	211	Introduction to Gender and Environmental Issues	3 credits
HST/LB 425		3 425	American and European Health Care since 1800	4 credits
	HST	483	Seminar in Modern European History (W)	3 credits
	LB	323A	Science in a Global Context - Arts and Humanities (W)	4 credits
	LB	323B	Science in a Global Context - Social Sciences (W)	4 credits
	LB	324A	Science and Sex, Gender, Sexuality - Arts and Humanities (W)	4 credits
	LB	324B	Science and Sex, Gender, Sexuality - Social Sciences (W)	4 credits
	LB	325A	Science and the Environment - Arts and Humanities (W)	4 credits
	LB	325B	Science and the Environment - Social Sciences (W)	4 credits
	LB	327A	Scientific Practice - Arts and Humanities (W)	4 credits
	LB	327B	Scientific Practice - Social Sciences (W)	4 credits
	MC	338	Environmental Justice and Global Change	4 credits
	MC	350	Evolution and Society	4 credits
	MC	351	Science and Social Policy	4 credits
	PHL	344	Ethical Issues in Health Care	4 credits
	PHL	380	Nature of Science	3 credits
	CSUS	310	History of Environmental Thought and Sustainability	3 credits
	SOC	368	Science, Technology, and Society	3 credits
	SOC	452	Advanced Seminar in Environmental Sociology	3 credits

5. One of the following capstone courses:

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MC	459	STEPP Capstone	3 credits		
ΙB	459	STEPP Capstone	3 credits		

Students interested in pursuing the Science, Technology, Environment and Public Policy Minor should contact the minor's coordinator and have the STEPP minor added to their record.

SCIENCE, TECHNOLOGY, ENVIRONMENT AND PUBLIC POLICY MINOR

This is a checklist for students in the Science, Technology, Environment and Public Policy minor who began in STEPP Fall of 2018 or later. Students should fulfill each of the following five requirements.¹

	e of the following courses: 8 181 MC 181	
Classes must be at the 20	O-level or above, consist primarily of natural science, and not be integrative studies courses. In the STEPP minor coordinator to ensure that the particular course they choose adequately	
3. Public Policy. Any two	of the following courses:	
ABM 400 ABM 427 ANR 250 EC 310 CSUS 464 CSUS 465 FOR 466 FSC 421 FW 439 FW 445 FW 450 FW 481	LB 322A LB 322B LB 326A LB 326B	
FW 4914. History, Philosophy, & S	MC 445 MC 450 MC 469 ociology of Science. Any two of the following courses: ²	
EPI 390 FW 211 HST 425 HST 483 LB 323A LB 324A LB 324B LB 325A LB 325B LB 327A LB 327B LB 425	MC 338 MC 350 MC 351 PHL 344 PHL 380 CSUS 310 SOC 368 SOC 452	
5. Capstone Course. Any o	one of the following courses: C 459	

¹A student may petition the Coordinator of STEPP to allow for any class not on this list to be accepted in fulfillment of any of the five required categories. In these cases, the final decision is left to the Coordinator, and students should always seek approval before enrolling in the class.

²At least two of the six courses in the Public Policy, the Science Applications, or the History, Philosophy and Sociology of Science requirements must be taken outside of the student's major department.