Bachelor of Science and Arts (BSA)

Mellon College of Science (MCS) Concentration in Environmental & Sustainability Studies 123 units (minimum)

Advisor: Ryan Sullivan, DH 2111, 412-268-8462, rsullivan@cmu.edu

Additional Required Courses 09-217 Organic Chemistry I 33-122 Physics II for Biological Sciences & Chemistry Students or 33-142 Physics II for Engineering and Physics Students (12)		9 Students 9	Electives 45 units minimum Choose three MCS Electives and two DC Electives in consultation with the concentration advisor.		
o. 00 - 1		MCS Electives:			
Core Cour	rses	30 units	03-140	Ecology and Environmental Science	9
	Environmental Systems on a Changing Planet	9	09-225	Climate Change: Chemistry, Physics, Planetary Scien	ice 9
	Environmental Systems on a Changing Planet:	3	09-510	Chemistry and Sustainability	9
" > 0	Science & Engineering Addendum (co-req: 24/		09-524	Environmental Chemistry *	9
66-236	Introduction to Environmental Ideas	9	09-529	Introduction to Sustainable Energy Science	9
66-506	Senior Capstone	9	12-100	Exploring CEE:	12
0	(Interdisciplinary Research: Capstone in ESS)	,		Infrastructure and Environment in a Changing World	d
	,		12-201	Geology	9
Earth and	Environmental Science	9 units	19-101	Introduction to Engineering and Public Policy	12
Choose one course from the list below.			19-425	Sustainable Energy for the Developing World	9
0	P' 1 C Y'C C ' 1m '		24-292	Renewable Energy Engineering	9
03-128	Biology for Life Special Topics:	9	27-505	Exploration of Everyday Materials	9
	Section S, Tropical Ecology		33-226	Physics of Energy	9
03-140	Ecology and Environmental Science	9			
09-225	Climate Change:	9	DC Electiv		
	Chemistry, Physics, Planetary Science *		76-241	Introduction to Gender Studies	9
09-510	Chemistry and Sustainability *	9	76-291	Getting Heard/Making a Difference	9
09-524	Environmental Chemistry *	9	76-354	Watchdog Journalism	9
09-529	Introduction to Sustainable Energy Science *	9	76-395	Science Writing *	9
09-538	Exposure and Risk Assessment for Environmen	ıtal 9	76-450	Law, Culture, and the Humanities	9
	Pollutants:		79-201	Introduction to Anthropology	9
	Environmental Exposure and Risk Assessment		79-275	Introduction to Global Studies	9
33-226	Physics of Energy *	9	79-278	How (Not) to Change the World	9
* Prerequisites from the BSA general education curriculum		79-288	Bananas, Baseball, and Borders:	9	
		_		Latin America and the United States	
Global Co		3 units	79-297	Technology and Work	9
99-xxx	Each semester, a new course is offered on Globa		79-331	Body Politics: Women and Health in America	9
	themes, in partnership with University of Pittsh	ourgh's	79-372	The Rise and Fall of Pittsburgh Steel	6
	Global Studies Center.		79-377	Food, Culture, and Power: A History of Eating	9
			79-379	Extreme Ethnography	9
	and Data Science	9 units	79-383	The History of Capitalism	9
36-xxx	Any Statistics Course	9	80-135	Introduction to Political Philosophy	9
			80-244	Environmental Ethics	9
Political Economy 9 units minimum		ninimum	84-110	Foundations of Political Economy	9
Choose one	course from the list below.		84-275	Comparative Politics	9
19-101	Introduction to Engineering and Public Policy	12	84-325	Contemporary American Foreign Policy	9
79-300	History of American Public Policy	9	85-241	Social Psychology	9
79-300 84-110	Foundations of Political Economy	9	* Additional	prerequisites	
84-226	International Relations	9	Tadata onur j		
84-325	Contemporary American Foreign Policy	9			
88-344	Systems Analysis: Environmental Policy	9			
00-344	Systems Amarysis. Environmental Policy	9			

BSA Free Electives