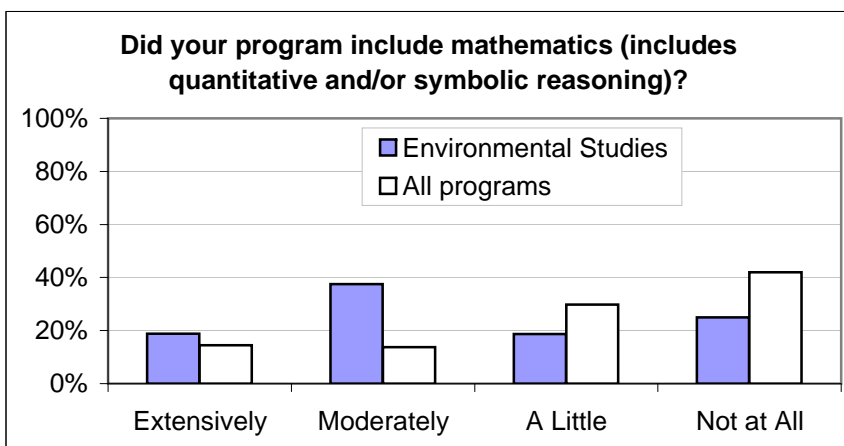


End-of-Program Review 2009-10

Mathematics in Environmental Studies programs (ES)

Did your program include mathematics (includes quantitative and/or symbolic reasoning)?

	Extensively	Moderately	A Little	Not at All	Percent of Programs with any mathematics	Programs with any mathematics (N)	Programs responded (N)
Environmental Studies	18.8%	37.5%	18.7%	25.0%	75.0%	12	16
All programs	14.5%	13.7%	29.8%	42.0%	58.0%	76	131



Description of Environmental Studies with mathematics

Environmental Studies programs with mathematics	Extent	Field	Introductory	Intermediate	Advanced
Field Experiments in Ecological Genetics	Extensively	Algebra, Statistics, Advanced statistics, Trigonometry	X	X	X
Risk Assessment in Environmental Health	Extensively	Basic algebraic calculations for assessing exposure and risk statistics including excel workshops		X	X
Tropical Rainforests	Extensively	Statistics		X	
Climate Solutions	Moderately	Spreadsheet calculations, college algebra	X		
Disturbance Ecology	Moderately	Description and analysis of data, ratios, trends and patterns, landscape pattern analysis		X	
Ecological Agriculture	Moderately	Nutrient need calculations, nutrient ?, statistics	X		X
Field Ornithology	Moderately	Statistics, analysis of data, graphs, tables, charts	X	X	

Introduction to Environmental Studies	Moderately	Basic statistical concepts, data summaries and graphing, simple algebraic calculation	X		
SOS: Advanced Natural History	Moderately	Some students used descriptive statistics and graphics to analyze data.		X	
Ornithology	A Little	We performed basic statistics (mean, standard deviation, 95% confidence interval) on data we collected in the field. We also used a little geometry (calculating area from the radius of a circle - which was our point count).	X		
Technical Writing in the 21st Century	A Little	Stats		X	
Temperate Rainforests	A Little	Statistics and data analysis	X		