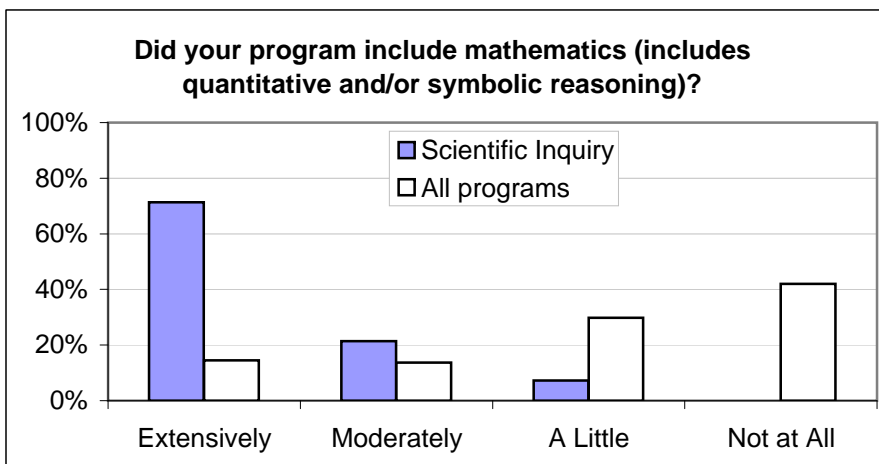


End-of-Program Review 2009-10

Mathematics in Scientific Inquiry programs (SI)

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)
Scientific Inquiry	71.4%	21.4%	7.2%	0.0%	100.0%	14	14
All programs	14.5%	13.7%	29.8%	42.0%	58.0%	76	131



Description of Scientific Inquiry programs with mathematics

Scientific Inquiry programs with mathematics	Extent	Field	Introductory	Intermediate	Advanced
Astronomy & Cosmologies	Extensively	Algebra, trigonometry, scientific notation, numerical estimation of multivariable formulae for very large numbers (without calculators)	X	X	
Atoms, Molecules and Reactions I	Extensively	Calculus, linear algebra			X
Atoms, Molecules, Reactions III: Thermodynamics, Kinetics and Materials Chemistry	Extensively	Multivariable Calculus, Differential Equations			X
Earth Matters: Geology and Chemistry	Extensively	[Faculty did not elaborate.]		X	

Introduction to Natural Science: Life, the Universe, and Everything	Extensively	Pre-calculus, Algebra (in context of chemistry and physics), probability (in context of biology), graphing data analysis (in context of biology, chemistry, physics)	X		
Mathematical Origins of Life	Extensively	Dynamical systems, linear algebra, difference equations, evolutionary game theory			X
Mathematical Systems	Extensively	Abstract Algebra, Real Analysis, Complex Analysis, Set Theory, Combinatorics, Probability, Mathematics Research		X	X
Models of Motion	Extensively	Calculus			X
Sustainable Forestry	Extensively	Statistics, algebra	X	X	X
The Mathematical Order of Nature	Extensively	College Algebra, Introductory Computer Science, Elementary Mathematical Modeling	X		
AMR II	Moderately	[Faculty did not elaborate.]		X	
Foundations of Health Science	Moderately	Algebra, Probability, and Descriptive statistics, as needed for analyses of data, identification and analysis of trends or patterns, and reading and interpreting graphs/tables/charts	X		
MOLECULE TO ORGANISM	Moderately	DATA INTERPRETATION, GRAPHING, ALGEBRA/PRECALCULUS CALCULATIONS		X	
SOS: Experimental Science	A Little	None in particular but you cannot do chemistry without some math.		X	