

The Associate of Applied Science in Computational Mathematics can be excellent preparation for future study in mathematics, statistics, and computer science, as well as good training for students wishing to pursue professions that require a strong mathematical and coding/programming background. There are two concentrations in this program:

- DS Concentration: Data Science and Applied Mathematics
- CS Concentration: Computer Science

		Concentration		
	Course	Credits	DS	CS
Fall 	MATH 1215: Intermediate Algebra	3	X	X
	ENGL 1110: Composition I	3	X	X
	CS 105L: Introduction to Computer Programming	3	X	X
	PHIL 1120: Logic, Reasoning, and Critical Thinking	3	X	X
	Gen Ed Elective: Choose any Gen Ed course	3	X	X
Spring 	MATH 1220: College Algebra	3	X	X
	ENGL 1120: Composition II	3	X	X
	Gen Ed Elective: Choose one Gen Ed course	3	X	X
	Gen Ed Physical & Natural Sciences: Choose one course with Lab	4	X	X
Summer 	MATH 1240: Pre-Calculus	3	X	X
	MATH 1230: Trigonometry	3	X	X
Fall 	MATH 1512: Calculus I	4	X	X
	Gen Ed Elective: Choose any Gen Ed course	3	X	X
	CS 152L: Computer Programming Fundamentals	3		X
	STAT 279: Data Science	3	X	
Spring 	MATH 1522: Calculus II	4	X	X
	CS 261: Mathematical Foundations of Computer Science	3	X	X
	MATH 1350: Introduction to Statistics	3	X	X
	CS 251L: Intermediate Programming	3		X
Summer 	BCIS 1110: Fundamental of Information Literacy	3	X	X
	Elective: Choose any elective course	3	X	
Fall 	MATH 2531: Calculus III	4	X	
	CS 293: Social and Ethical Issues in Computing	1		X
	CS 241L: Data Organization	3		X









Total Program Credit Hours = 3 prerequisite hours + 61 program credit hours






Career and Educational Advancement Opportunities

This degree provides students with the foundational coursework needed to transfer to a four-year institution and pursue a bachelor’s degree in Applied Mathematics, Computer Science, Statistics, and/or Computational Mathematics. It also provides excellent preparation for future study in the areas of mathematics, statistics, and computer science, as well as being good training for students wishing to pursue professions that require a strong mathematical and coding/programming background. Students in this degree program will hone their mathematical skills, grapple with concepts in formal logic, and develop beginning to intermediate programming skills. Work-based learning experiences in computer science and statistics are available to interested students. Career Services can help students find these opportunities.

Computational Mathematics AAS

 Bookkeeper \$30K-\$43K 	 Insurance Claims Clerk \$23K-\$41K 	 Loan Officer \$34K-\$63K 	 Claims Adjuster \$41K-\$69K 
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New Mexico data taken from [O*Net Online](#) United States Department of Labor database. Wages reflect annual income and are rounded to the nearest thousand dollars. income and are rounded to the nearest thousand dollars.

 = slow growth
 = average
 = fast growth