APPLIED COMPUTATIONAL MATHEMATICS, BS

Code	Title	Credits
Required Mathematics Courses		
MATH 150	Calculus I	5
MATH 151	Calculus II	4
MATH 200	Introduction to Statistics	3
MATH 252	Calculus III	4
MATH 320	Foundations of Mathematics	3
MATH 345	Numerical Analysis	3
MATH 350	Differential Equations	3
MATH 360	Linear Algebra	3
MATH 450	Real Analysis	3
MATH 455	Applied Mathematics	3
MATH 480	Mathematics Seminar	1
Required Computer Science Courses		
COMP 164	Essentials of Computer Science	3
COMP 164L	Essentials of Computer Science Lab	1
COMP 165	Fundamentals of Programming	3
COMP 165L	Fundamentals of Programming Lab	1
Electives		
Select **three** of the following with at least one at the 400 level:		9
COMP 306	Object-Oriented Design & Programming	
COMP 307	C# Programming	
COMP 324	Design and Analysis of Algorithms	
COMP 328	Theory of Computation	
MATH 300	Modern Geometry	
MATH 325	Combinatorics & Graph Theory	
MATH 386	Special Topics in Mathematics	
MATH 430	Probability & Statistics	
MATH 460	Complex Analysis	
MATH 486	Advanced Topics in Mathematics	
Other Required Courses		
ENG 360	Scientific & Technical Writing	3
Additional Requirements		
Select a minor in one of the following:		13-28
Biology (https://catalog.smsu.edu/academic-programs-degrees/biology/biology-minor/)		
Computer Science (https://catalog.smsu.edu/academic-programs-degrees/computer-science/computer-science-minor/)		
Environmental Science (https://catalog.smsu.edu/academic-programs-degrees/environmental-science/environmental-science-minor/)		
Exercise Science (https://catalog.smsu.edu/academic-programs-degrees/exercise-science/exercise-science-minor/)		
Finance (https://catalog.smsu.edu/academic-programs-degrees/finance/finance-minor/)		
Physics (https://catalog.smsu.edu/academic-programs-degrees/physics/physics-minor/)		
Chemistry (https://catalog.smsu.edu/academic-programs-degrees/chemistry/chemistry-minor/)		
Total Credits		**68-83**

Note: While every effort is made to ensure accuracy, SMSU reserves the right to correct any clerical errors herein. Also, you can submit feedback.