Mathematics with emphasis in Computer Science  Bachelor of Science  (BS)  

At least 124 hours are required for graduation, and students must earn a 2.0 overall GPA, a 2.0 WSU GPA, and a 2.0 GPA in the major. Students must also complete all courses required for Liberal Arts and Sciences General Education. French, German, or Russian is also recommended for students contemplating graduate work in mathematics or statistics.

REQUIREMENTS FOR MAJOR:  43 hours in Math courses, including:

Core courses taken by all Math Majors:  15 hours

415  Introduction to Advanced Mathematics (3)  
511  Linear Algebra (3)  
547  Advanced Calculus I (3)  
551  Numerical Methods (3)  
555  Differential Equations I (3)  

Math 451  Computational Math using MATLAB (3)

Select an additional higher level programming language course

_____  ____________________ (3)

Additional courses:  10 hours

CS 300  Data Structures and Algorithms I (4)  
MATH 321  Discrete Structures I (3)  
MATH 322  Discrete Structures II (3)

Select 4 courses chosen from the following (at least 3 of the 4 must be in computer science):  12 hours

MATH 553  Mathematical Models (3)  
MATH 657  Optimization Theory (3)  
MATH 751  Numerical Linear Algebra (3)  
CS 194  Introduction to Digital Design (4)  
CS 238  Assembly Language Programming (3)  
CS 410  Programming Paradigms (3)  
CS 510  Programming Language Concepts (3)  
CS 540  Operating Systems (3)  
CS 560  Design and Analysis of Algorithms (3)  
STAT 774  Statistical Computing I (3)

Electives  – for students contemplating Graduate School, the following additional courses are highly recommended along with one or more of French, German or Russian:

513  Fundamental Concepts of Algebra (3)  
547  Advanced Calculus I (3)  
640  Advanced Calculus II (3)

REQUIREMENTS FOR A MINOR:  16 hours, a grade of D will not count in the minor

242  Calculus I (5)  
243  Calculus II (5)  
344  Calculus III (3)  

400-level or above:  _____  ____________________ (3)  Must be approved by Math advisor

Dr. Thomas Delillo, Chair  
Department of Mathematics and Statistics  
355 Jabara Hall, 978-3160

Mr. Paul Scheuerman, Undergraduate Advisor  
355 Jabara Hall  978-3986  
paul.scheuerman@wichita.edu