B.S. APPLIED MATHEMATICS - Computer Science Concentration

APPLIED MATHEMATICS: 61 CREDITS

LOWER DIVISION

Course Title
MATH 157 Calculus & Analytic Geometry I
MATH 258 Calculus & Analytic Geometry II
MATH 259 Calculus & Analytic Geometry III
MATH 231 Discrete Structures
CPSC 121 Computer Science I

UPPER DIVISION

Course Title
MATH 301 Fundamentals of Mathematics
MATH 339 Linear Algebra
MATH 350 Elementary Numerical Analysis
MATH 437 Abstract Algebra
MATH 496 Comprehensive-Applied Math

COMPUTER SCIENCE CONCENTRATION

CPSC 122 Computer Science II
CPSC 223 Algorithms/Abstract Data Structures

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<th>CPSC 300-400 Level Electives:</th>
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CPSC 310-319 Special Topics
CPSC 321 Database Management Systems
CPSC 326 Organization of Programming Languages
CPSC 351 Theory of Computation
CPSC 353 Applied Cryptography
CPSC 360 Introduction to Robotics
CPSC 410-414 Advanced Topics
CPSC 425 Computer Graphics
CPSC 427 Artificial Intelligence
CPSC 447 Computer Networks
CPSC 450 Design & Analysis-Computer Algorithms
CPSC 475 Speech & Natural Language Processing

*(CPSC 321, 351, 353, and 450 are the recommended elective choices)*

* MATH 260 can count as Math 300-400 level elective and MATH 413 can count as Math 400-level elective for this concentration only.

Check the catalog for pre-requisites when selecting electives.