This interdisciplinary major is designed for students with a strong interest both in Computer Science and in Mathematics. Thus, the learning outcomes for the programs are those of the Computer Science and Mathematics programs (see pages 107 and 201). The program provides an in-depth foundation in both software engineering and the mathematics that underpins it, showcasing the links between the two disciplines. Students who pursue this major graduate and work in the field of software development or they may decide to pursue further education in graduate school in either computer science or industrial mathematics.

Bachelor of Science

Computer Science 110, Problem Solving through Programming
Computer Science 111, Introduction to Java
Computer Science 226, Data Structures Using Java
Computer Science 271, Computer Organization
Computer Science 272, Computer Architecture
Computer Science 323, Programming Languages
Computer Science 341, Software Design and Development
Computer Science 351, Database Design
Computer Science 440, Software Engineering
Computer Science 450, Projects for Computer Science Majors
Mathematics 160 and 161, Calculus I and II
Mathematics 205, Discrete Mathematics or
  Mathematics 206, Transition to Advanced Mathematics
Mathematics 207, Calculus III
Mathematics 208, Linear Algebra
Mathematics 309, Differential Equations
Mathematics 312, Theory of Probability and Statistics
Mathematics 324, Numerical Analysis