MATH 1600 Computer Science I 4
& CISC 1610 Computer Science I Lab 4
CISC 2000 Computer Science II 4
& CISC 2010 Computer Science II Lab 4
CISC 2200 Data Structures 4
CISC 4080 Computer Algorithms 4
CISC 4090 Theory of Computation 4
MATH 1207 Calculus II 4
MATH 2004 Multivariable Calculus I 4
MATH 2001 Discrete Mathematics 4
MATH 2006 Linear Algebra I 4
MATH 4006 Numerical Analysis 4

Electives
Select two electives in mathematics (numbered above 2000) or computer and information sciences (numbered above 2000, possibly including 5000-level graduate courses) 2

Concentration
Select one of the following:
Mathematics Concentration
Computer and Information Sciences Concentration

1 Students who take CISC 1600 during Fordham's Summer Session do not take CISC 1610, as the summer lecture and lab are offered in a combined format.
2 At least one elective must be from mathematics if the computer and information sciences concentration is chosen and at least one elective must be in computer and information sciences if the mathematics concentration is chosen. The following courses may not count toward this requirement: CISC 4001 Computers and Robots in Film, CISC 4650 Cyberspace: Issues and Ethics, and CISC 4660 Minds, Machines, and Society.

Concentrations
Each student must also take two courses from one of the following two concentrations. Courses from the concentration not chosen may be used as electives.

Mathematics Concentration
Course Title Credits
Select two of the following: 8
MATH 3006 Probability
MATH 3007 Statistics
MATH 3002 Differential Equations
MATH 4022 Partial Differential Equations

Computer and Information Sciences Concentration
Course Title Credits
Select two of the following: 8
CISC 3500 Database Systems
CISC 3593 Computer Organization
CISC 3595 Operating Systems
CISC 4597 Artificial Intelligence
CISC 4615 Data Communications and Networks
CISC 4631 Data Mining

Availabilities
The major in mathematics and computer & information sciences is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham's School of Professional and Continuing Studies may major in mathematics and computer & information sciences only if they receive the approval of their advising dean and/or department, and their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

Fordham College at Rose Hill students: The requirements above are in addition to those of the Core Curriculum.
Fordham College at Lincoln Center students: The requirements above are in addition to those of the Core Curriculum.

Professional and Continuing Studies students: The requirements above are in addition to those of the PCS Core Curriculum and any additional electives that may be required to earn a minimum of 124 credits.