Sequence of Courses for MATH Majors Leading to a B.S. in Mathematics from Fordham University and a B.S. Degree in Engineering from either Columbia University or Case Western Reserve University

Freshman

Fall	Spring
Calculus 1: MATH 1206	**Calculus 2: MATH 1207**
Computer Science I: CISC 1600	**Computer Science II: CISC 2000**
Computer Science I Lab: CISC 1610	**Computer Science II Lab: CISC 2010**
Social Science: ECON 1100 or 1200	**Mathematical Modeling: MATH 1700**
Composition and Rhetoric: ENGL1102	Faith and Critical Reason
Philosophy of Human Nature: PHYS1000	Understanding Historical Change

Sophomore

Multivariable Calculus I: MATH 2004	**Multivariable Calculus II: MATH 2005**
Discrete Mathematics: MATH 2001	**Linear Algebra I: MATH 2006**
Physics I: PHYS 1701	**Differential Equations: MATH 3002**
Physics I Lab: PHYS 1511	**Physics II: PHYS 1702**
Philosophical Ethics	**Physics II Lab: PHYS 1512**
Texts and Contexts (EP2)	Sacred Texts and Traditions

Junior

Abstract Algebra: MATH 3005	**Numerical Analysis: MATH 4006**
Probability: MATH 3006	**Statistics: MATH 3007**
General Chemistry I Recitation: CHEM1311	**Scientific Communication: MATH 3010** (EP3)
General Chemistry I: CHEM 1321	Adv. Disc. Course or Values Seminar (EP4)
General Chemistry Lab I: CHEM 1331	Engineering Elective
Advanced Disciplinary Course	
Fine Arts	

Students applying to Case Western should use the Engineering Elective to take CHEM 1322.

Students applying to Columbia in Engineering Mechanics may use the Engineering Elective as a general elective. For Applied Mathematics, Electrical Engineering and Mechanical Engineering, take PHYS 2005, Modern Physics. For Civil Engineering, take PHYS 2101. For Computer Engineering take CISC 3400, JAVA Programming. Students in fields of Operations Research must use AP credits or summer courses to take CISC 2200 Data Structures.
Fields of Engineering other than those listed here will likely require a number of summer courses.

(revised: March 19, 2020)