Hunter College of The City University of New York

Math 261 (W) Mathematics in Human History 3 hrs, 3 cr.

Textbook: *The Saga of Mathematics, A Brief History* by Marty Lewinter and William Widulsi (Prentice Hall)

Week 1	Early mathematics, especially Egyptian and Babylonian, and overview
Week 2	Early Chinese, Mayan, Inca and Greek mathematics, especially different base systems and magic squares
Week 3	Greek number theory and proofs
Week 4	Later Greek mathematics and impact on later mathematics and astronomy
Week 5	The world of mathematics before the 16^{th} century, especially the role of Arabic mathematics; revival of Greek mathematics; Hindu-Arabic numerals
Week 6	16^{th} and 17^{th} century mathematics in algebra, analytic geometry and calculus discovery
Week 7	The impact of calculus and beginnings of probability theory
Week 8	18^{th} and 19^{th} century mathematics with emphasis on French mathematics through the time of Napoleon, Gauss and beginnings of non-Euclidean geometry
Week 9	British mathematics revived, transition to 20^{th} century rigor in mathematics, German mathematics and its impact on emerging American mathematics, computers from Babbage to today
Week 10-15	Reports from student projects and their integration into the themes of mathematics and statistics