MATHEMATICS 153

HISTORY OF MATHEMATICS

Text: *History of Mathematics, 5th edition,* by D.M. Burton.

      This course is a survey from a historical viewpoint of various developments in mathematics with particular emphasis on the nineteenth and twentieth centuries. A listing of chapters in the text is given below.

Ch. 1   Early Number Systems and Symbols

Ch. 2   Mathematics in Early Civilizations

Ch. 3   The Beginning of Greek Mathematics

Ch. 4   The Alexandrian School: Euclid

Ch. 5   The Twilight of Greek Mathematics: Diophantus

Ch. 6   The First Awakening: Fibonacci

Ch. 7   The Renaissance of Mathematics: Cardan and Tartaglia

Ch. 8   The Mechanical World: Descartes and Newton

Ch. 9   The Development of Probability Theory: Pascal, Bernoulli, Laplace

Ch. 10   The Renaissance of Number Theory: Fermat, Euler, Gauss

Ch. 11   Non-Euclidean Geometry: Bolyai and Lobachevsky

Ch. 12   The Theory of Sets: Cantor and Kronecker

Ch. 13   Extensions and Generalizations: Hardy, Hausdorff, Noether