

Introduction to Contemporary Mathematics

A&S 100

Tentative List of Topics

- Management Science
 - Street Networks
 - Planning and Scheduling
 - Linear Programming
- Coding Information
 - Identification Numbers
 - Transmitting Information
- Social Choice and Decision Making
 - Election Systems
 - Weighted Voting Systems
 - Fair Division
 - Apportionment
 - Game Theory
- On Size and Shape
 - Growth and Form
 - Symmetry and Patterns
 - Tilings
- Modeling in Mathematics
 - Logic and Modeling
 - Consumer Finance Models

Potential Texts

- COMAP, *For All Practical Purposes*.
- Tannenbaum, *Excursions in Modern Mathematics*.
- Hathaway, *Mathematics for the Modern World*.
- Pirnot, *Mathematics All Around*.
- Gilbert and Hatcher, *Mathematics Beyond the Numbers*.