Course Number
MTH-062-01
Course Description
One part of this course will cover polling, answering questions such as: were the 2016 U.S. Presidential election polls as inaccurate as often reported? What are margins of error, exactly? How many people must be surveyed for accurate results? Which people? To help answer these questions, the course will include background material on probability and statistics. Another part will be on voting theory, where we will look into designing elections from scratch, in search of the best system for converting the preferences of the voters into an election winner. This will lead to voting paradoxes and a discussion of Arrow's impossibility theorem. Throughout the course, we will draw on many examples of voting, such as the U.N. Security Council, the election of popes, the academy awards, infamous historical elections, and the U.S. presidential election. Additional topics will be chosen from gerrymandering, Congressional seat apportionment, and game theory
Academic Term
20/FA
Instructor
Jauregui, Jeffrey
Location & Meeting Time
Visual Arts Building-204+ M/W/F 10:50AM-11:55AM LEC
Petition
Y
Credits
1.00
Capacity
25
Total Students
25
Additional Information
http://muse.union.edu/mathematics
Common Curriculum
QMR Quant & Math Reasoning
Academic Department
Mathematics
Field Of Study
Mathematics (MTH)