

962-G1-95

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*M110 - Mathematics and Politics.*

This course was created at Indiana University Northwest in 1996 inspired by the Alan Taylor's book of the same name. This year the course is funded through the NSF project "Mathematics Throughout the Curriculum" led by Professors Maki and NG at Indiana University. The level of presentation assumes no college-level mathematics prerequisites. The course is well suited for social science and humanities majors who need mathematics course to satisfy their distribution requirements. As Alan Taylor says in his book: "Mathematicians have tended to make two errors in teaching non-science students: we have overestimated their comfort with computational material, and we have underestimated their ability to handle conceptual material." Student population at Indiana University Northwest is fairly non-traditional — about 50% are traditional students, while the rest are returning adults. This course is particularly well suited for returning students, since it does not emphasize algebraic manipulation. This course provides humanities and social science students with exposure to topics such as: Voting Systems, Statistics, Political Power, Combinatorics, Game Theory, and the presentation of mathematical proof. In this course, we make extensive use of Internet and computer technology. (Received July 30, 2000)