

1125-D1-461 **Mike Pinter*** (mike.pinter@belmont.edu), Department of Mathematics and Computer Sci,
Nashville, TN 37212. *Mathematics Intersecting with Other Modern World Ideas:
1850-1950*. Preliminary report.

For this presentation, I will describe ideas, people and topics from mathematics in the mid 19th century to the mid 20th century that I incorporate into a general education mathematics course that students typically take during their first two years. One version of the course is offered in the Honors Program. The courses do not have any particular prerequisite; thus, the courses do not directly rely on ideas from calculus or algebra. Topics addressed from that 100-year time period include symbolic logic, basics of set theory, and social choice theory, with particular emphasis on logic. Logicomix is a very helpful resource for framing a large discussion that draws in the arts, some social sciences, philosophy, and the beginnings of computer science. In addition to names from mathematics such as Bertrand Russell, Kurt Godel and Alan Turing, students also encounter Kenneth Arrow and Thomas Kuhn. I will include some associated course assignments and student feedback. (Received September 02, 2016)