

1096-VG-829 **William P. Fox*** (wpfox@nps.edu), Department of Defense Analysis, NPS, Monterey, CA 93943.
Mathematical Modeling for Empowering Decision Making.

We teach a three course sequence in mathematical modeling that includes deterministic models, stochastic models, and decision theory models. Our students are weak mathematically but they are able to solve and interpret very sophisticated problems because of the power of the computer. We are limited to Excel since our students all have access to Excel both during class and will have access to Excel at work after graduation. Within the time constraints, I will present several examples and quickly describe the modeling and the use of the computer to solve problems, aide in sensitivity, and help interpret the results. (Received September 10, 2013)