

1116-S1-1488      **Patrice G Tiffany\*** ([patrice.tiffany@manhattan.edu](mailto:patrice.tiffany@manhattan.edu)) and **Rosemary C Farley**. *Using Maple to Promote Modeling in Differential Equations.*

The July, 2015 report of the Differential Equations Working Group of the Committee on the Undergraduate Program in Mathematics of the MAA states that "The ODE course is easily the course in the introductory undergraduate mathematics curriculum in which the use of technology is most essential." The same report states that with technology, modeling problems that were previously inaccessible become accessible. This presentation will demonstrate how the computer algebra system Maple can be used very effectively in the differential equations class to introduce topics that cannot be covered as easily without the use of such a technological tool. Lab assignments and their solutions will be made available to participants. The assignments will involve modeling problems investigated during the MAA PREP workshop SIMIODE–Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations–this summer. These worksheets can certainly be adapted for a different system like Mathematica. (Received September 20, 2015)