

1116-E1-1060      **D Scott Dillery\*** ([dillerys@lindsey.edu](mailto:dillerys@lindsey.edu)), Mathematics, Lindsey Wilson College, 210 Lindsey Wilson Street, Columbia, KY 42728. *Using SageCell for Engaging Students.*

SageMathCell is a web interface for the free open-source mathematics software system SageMath that may be embedded in any webpage and utilized by most any device. This talk highlights four features that have been extremely useful to engage students in introductory statistics and in calculus 2. The features are the interact capability for exploring the effect of parameters in various problems, the ability to link cells for online practice, the ability to generate essentially endless examples for exposition, inquiry and practice, and the ability to use it as a platform for programming skills. Examples in the talk will include histograms used to explore probability and the normal distribution, interactions with Bayes' formula and diagnostic testing, and parameterized curves made of cubic splines used to connect the dots. (Received September 16, 2015)