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Bernd S. W. Schroeder* (schroeder@coes.LaTech.edu), Program of Mathematics and Statistics, Louisiana Tech University, Ruston, LA 71272. *On-Line Delivery of Differential Equations: (How) Does It Work?*

Recent predictions about universities as we know them becoming obsolete are, in the presenter's opinion, quite wrong. This talk will discuss some fundamentals of on-line delivery of mathematical content, including what it can do and what it cannot do. In a nutshell, on-line delivery has benefits. Some of these benefits will lead to change, but on-line delivery will not be a cure-all. Suggestions will be given on the following topics. Tools to set up on-line presentations. Design and length of on-line presentations. Tools for homework submission. Administration of exams. Blended courses. Opportunities for positive change.

A rather therapeutic aspect of this talk is that most answers and suggestions are – in retrospect – quite obvious. The presenter hopes that this fact will help reduce anxiety of potential course designers as well as the scorn that some people (including, on some aspects, the presenter) may have for on-line delivery. The primary example will be an on-line differential equations course designed by the presenter. (Received August 19, 2009)