1106-L5-1350 **Eric Sullivan*** (esullivan@carroll.edu), 1601 N Benton Ave, Helena, MT 59625. *Unifying PDEs, Linear Algebra, and Complex Analysis.*

Complex analysis is an essential part of the undergraduate mathematics major, but many traditional curricula appear to be missing some of the modern applications to complex analysis. In this presentation we'll give an example curriculum that interlaces traditional complex analysis topics with applications including Fourier analysis, linear algebra, and partial differential equations. The goal of this sample curriculum is to create a course that is not only proof-intensive but also recaps some of the larger themes and applications from linear algebra and PDEs to give students a flavor of the applicability of the subject. We will conclude with an open discussion of the traditional topics that are omitted in order to make room for applications. (Received September 12, 2014)