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Creating and Using Multimedia OER Modules for a Linear Algebra Course.

The Ohio Department of Higher Education funded a statewide initiative to create and adopt open educational resources for 20+ college courses, including a Linear Algebra course. A team of six faculty members representing a wide variety of public and private institutions worked as content writers and reviewers to create a set of multimedia modules that can be used as a primary content source or in conjunction with another OER text to teach an introductory course in Linear Algebra. The modules utilize the open Ximera platform to provide an interactive experience to users through machine-graded exercises, embedded demos, and videos. The modular structure of the content allows for greater flexibility. The multimedia aspect of the materials make them well-suited for use in a variety of instructional settings, including traditional, flipped, and online classrooms. In this presentation we will showcase the materials, discuss different approaches to using them in the classroom, and share information about using the product and opportunities to contribute to its further development. (Received September 24, 2018)