Adapting course curriculum to accommodate changes in technology use and educational standards is critical for the success of preparing future professional educators. This paper focuses upon the efforts of two professors who tried to restructure and redesign the course curriculum of an undergraduate course entitled *Computer Applications in Education* at The University of Southern Mississippi with the use of PT3 grants for the past three years.

This presentation addresses the various PT3 project activities undertaken for improving technology integration in an undergraduate teacher education course and the efforts conducted by the project directors to redesign and restructure the curriculum. The project involves developing and implementing several Web–based, multimedia instructional modules, creating an educational software library, establishing professional development opportunities for its instructors, revising the course structure and standardizing the curriculum to meet the National Educational Technology Standards for Teachers and Students, and developing a centralized course Web site for students and instructors to access. Professional development of course instructors was also performed to ensure instructional continuity across the various sections. In addition, professional development activities were carried out to ensure that the instructors were up-to-date on their knowledge of current trends and applications related to instructional technology and on using various hardware and software for the course. Personal experiences, ideas, and curriculum materials that have been developed as a result of this project are demonstrated in this presentation to provide other educators with examples of how to integrate technology into the curriculum.