



# EDU C441-50 Career and Technical Education in the 21st Century

Center for Teaching Excellence  
University of Virginia's College at Wise

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Office Hours: By Appointment  
Grading: 3 hour undergraduate college credit

## I. Course Description:

This course is designed to be a truly supportive learning community where students can learn and work together in an online format. Since there are no face-to-face meetings and no mandatory times to be online, online participation is a required at least once per week.

It is designed for all Career and Technical Education teachers. The history and individual philosophies of Career and Technical Education will be explored as well as strategies and resources to meet Workplace Readiness Skills competencies. Effective integration of technology into Career and Technical Education courses will also be investigated.

## Course Objectives

At the end of the course, teachers should be able to do the following:

- Explain the need for enhancing instruction with technology
- Explain and become part of a Professional Learning Community
- Explain the history of Career and Technical Education
- Develop a philosophy concerning Career and Technical Education
- Develop and implement high-quality, differentiated lesson plans to meet Workplace Readiness Skills competencies
- Locate and utilize available hardware and software
- Explore and locate high-quality web-based resources
- Examine inquiry-based instruction within the context of state's standards
- Develop and implement a WebQuest
- Integrate digital media into the classroom
- Enhance instruction by integrating technology-rich games into the classroom
- Integrate QR codes in the classroom

## Course Aims

EDU C441 will also assist teachers in meeting the following technology standards for instructional personnel:

- Instructional personnel shall be able to apply knowledge of terms associated with educational computing and technology.
- Instructional personnel shall be able to apply computer productivity tools for professional use.
- Instructional personnel shall be able to use electronic technologies to access and exchange information.
- Instructional personnel shall be able to identify, locate, evaluate, and use appropriate instructional hardware and software to support Virginia's Standards of Learning and other instructional objectives.
- Instructional personnel shall be able to use educational technologies for data collection, information management, problem solving, decision making, communication, and presentation within the curriculum.
- Instructional personnel shall be able to plan and implement lessons and strategies that integrate technology to meet the diverse needs of learners in a variety of educational settings.