

# Using Research-Based Practices to Develop Education in CTE

## MICROCREDENTIAL



### DELIVERY

Online; 3 credits

### PRICE

\$720

### MORE INFO

[NHTIbtc@ccsnh.edu](mailto:NHTIbtc@ccsnh.edu)

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The focus of this course is student learning and effective instruction. Throughout this course, the concepts include universal design for learning (UDL), "expert teachers" and "expert learners," research, theories, mindsets, and best practices in instructional approaches that increase student learning and achievement. The goal is to understand how learners grow and develop, and to design appropriately challenging, meaningful, and impactful learning experiences.

### Optimized for Your Needs

The NHTI education department has been working with the N.H. Department of Education and the Career and Technical Teachers in the state for the last 2 years to meet workforce needs. We provide coursework to assist CTE teachers in meeting N.H. state competencies and requirements for their site-based plans (formerly Alt IV) to earn N.H. teaching licenses for career and technical education.

### Course Information

This course offers you the abilities to:

1. Analyze UDL and its impact on teaching and learning.
2. Develop and articulate your definition of "expert teacher."
3. Describe how learners develop, recognizing how patterns vary within personal, physical, social, and academic dimensions.
4. Critique lesson plans/teaching practices, identify instructional approaches, evaluate effectiveness, and use research-based strategies to make recommendations that improve learning.
5. Apply research-based best practices to design learning environments/materials/curriculum and describe why techniques are used.
6. Create your own reflection strategies to assess the impact of different approaches on learning success and achievement.
7. Apply the concept of "expert learner" to classroom practices.

8. Compare and create effective formative and summative assessments and develop an understanding of rubric use, exemplars, and mastery-oriented feedback.

### About the Instructor

Amanda Bastoni, Ed.D., leads CAST's CTE work as an accomplished CTE director and teacher with 20+ years of experience in K-12 educational leadership, journalism, and business. She oversaw designed professional development for a staff of 45 at the largest CTE center in N.H., which included a student population of 1,900; the center is in an urban district with a large English language learner (ELL) population and low socioeconomic status. She uses UDL to increase pathways for ELL's and females interested in exploring CTE programs and STEM careers. She helped start innovative cross-disciplinary programs in CTE including Robot Algebra, a course that combines math and technology, and Drones in Technology, a course that combines art and technology. Bastoni has presented on a variety of topics – including work-based learning, professional development for CTE educators, special populations, and strategies for teaching CTE online – at national and regional CTE conferences and events. She has also written articles for local, regional, and national publications, and in 2020 authored the CTE chapter in *From the Inside Out: Concrete Steps to Transforming Education Today*, Rowman and Littlefield Inc.

### NHTI – Concord's Community College

NHTI is a dynamic public institution of higher learning that provides accessible, rigorous education for students, businesses, and the community. We create pathways for lifelong learning, career advancement, and civic engagement, offering 80+ academic programs to 4,600+ students annually. NHTI is a member of the Community College System of New Hampshire and since 1969 has been accredited by the New England Commission of Higher Education, a nongovernmental, nationally recognized accrediting agency.

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