



**Purchase College**

STATE UNIVERSITY OF NEW YORK

BRIDGES TO THE CLASSROOM

NYSED Approved CTLE Sponsor

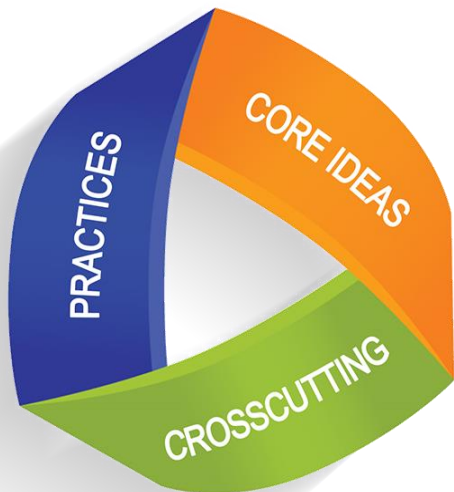


Choose from a wide range of CTLE 15-hour modules in math and the sciences.

Meet your professional requirements through CTLE modules aligned to the Next Generation Science Standards, and P-12 NYSSLS

**What is NGSS? THE THREE DIMENSIONS OF SCIENCE LEARNING?**

There are three distinct and equally important dimensions to learning science. These dimensions are combined to form each standard or performance expectation and each dimension works with the other two to help students build a cohesive understanding of science over time.



❖ **CROSSCUTTING CONCEPTS**

Crosscutting Concepts help students explore connections across the four domains of science, including Physical Science, Life Science, Earth and Space Science, and Engineering Design.

❖ **SCIENCE AND ENGINEERING PRACTICES**

Science and Engineering Practices describe what scientists do to investigate the natural world and what engineers do to design and build systems.

❖ **DISCIPLINARY CORE IDEAS**

Disciplinary Core Ideas (DCIs) are the key ideas in science that have broad importance within or across multiple science or engineering disciplines.

Purchase College, SUNY, in collaboration with Learn America and the Rockland Teachers Center Institute (RTC) offer CTLE modules. Work with our team of faculty to create NGSS aligned lesson plans. Bring the NGSS/NYSSLS concepts into your classroom.





15-Hour CTLE modules delivered through 10-hours of online self-paced review plus 5-hours of blended / Online Virtual symposiums with our faculty.

Courses are blended and provided via ebook with: animated videos, self-assessments, assignments, formative and summative assessments, and regular virtual meetings with faculty.

## CTLE Course Offerings

<b>BIO 101</b>	<a href="#"><u>Fresh air: Respiratory System, Tidal Volumes and Breathing</u></a>
Instructor:	Elaine Schwartz, Ph.D.
<b>BIO 102</b>	<a href="#"><u>Ticking right: Cardio Vascular Systems and the Regulation of Heart Beats</u></a>
Instructor:	Elaine Schwartz, Ph.D.
<b>BIO 103</b>	<a href="#"><u>No Bones About It: The Skeletal System and Predicting the Height of a Human</u></a>
Instructor:	Elaine Schwartz, Ph.D.
<b>CHEM 201</b>	<a href="#"><u>The disappearing act: Lessons on Solubility</u></a>
Instructor:	Patrick Dwyer, Ph.D.
<b>CHEM 202</b>	<a href="#"><u>It's a balancing act: Chemical Reactions</u></a>
Instructor:	Patrick Dwyer, Ph.D.
<b>CHEM 203</b>	<a href="#"><u>Hot 'n Cold: Temperature Effects on Matter</u></a>
Instructor:	Patrick Dwyer, Ph.D.
<b>PHY 301</b>	<a href="#"><u>Physics of Baseball: Analyze Baseball Essentials</u></a>
Instructor:	Vincent Licciardello
<b>PHY 302</b>	<a href="#"><u>Make a wave: Study of Sound Waves</u></a>
Instructor:	Vincent Licciardello
<b>PHY 303</b>	<a href="#"><u>Closed Circuit: Basics of Electricity</u></a>
Instructor:	Vincent Licciardello
<b>MAT 401</b>	<a href="#"><u>Dots and Lines: Everyday Applications of Graph Theory</u></a>
Instructor:	Carol Desoe
<b>MAT 402</b>	<a href="#"><u>You Are What You Eat: Analyze Food Habits Through Statistical Methods</u></a>
Instructor:	Barbara McMullen
<b>MAT 403</b>	<a href="#"><u>How Much Paint Should We Buy?</u></a>
Instructor:	Carol Desoe

