

NOT CREATED BY THE STATE EDUCATION  
DEPARTMENT. PRESENTED BY THOMAS  
ROGERS, DISTRICT SUPERINTENDENT OF  
NASSAU BOCES

An asset to the education system...  
... an asset to economic development.

# **CTE – AN ESSENTIAL ELEMENT OF THE REGENTS REFORM AGENDA**

# OVERVIEW

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- ✘ Aligned with Fastest Growing Jobs
- ✘ Common Core Shifts – a natural in CTE
- ✘ Graduation Rate – above county average
  - + Particularly for high-poverty districts
- ✘ College Readiness – articulation agreements
- ✘ Post-Secondary Persistence

## TOP GROWING JOBS THROUGH 2018

- ✘ Network Systems
- ✘ Personal Care Aides
- ✘ Home Care Aides
- ✘ Physical Therapy Aides
- ✘ Medical Scientists
- ✘ Pharmacy Technicians
- ✘ Physical Therapy Assistants

+ Source: NYS Labor Department

## CAREER & TECHNICAL EDUCATION (CTE)

- Computer Network Technology
- Nurse Assisting
- Medical Assisting
- Physical Therapy Aide
- Medical Lab Technician
- Pharmacy Technicians
- ✘ Physical Therapy Aide

+ Source: Barry Tech Catalog

# FASTEST GROWING JOBS & CTE

# NEW INDUSTRY CLUSTERS

Health care	Technology	Digital Arts
<ul style="list-style-type: none"><li>• Dental Assisting</li><li>• Medical Assisting</li><li>• Nurse Assisting</li><li>• Pharmacy Technician</li><li>• Physical Therapy Aide</li></ul>	<ul style="list-style-type: none"><li>• Computer Technology</li><li>• Computer Network Technology</li><li>• Network Cabling Technician/Home Technology Integration (HTI)</li></ul>	<ul style="list-style-type: none"><li>• Advertising and Animation Design</li><li>• Audio production</li><li>• Video Production and Digital Film Making</li><li>• Graphics and Commercial Printing</li><li>• Photography</li></ul>
Green Jobs/Energy	Public Safety	Aviation
<ul style="list-style-type: none"><li>• Conservation and Land Management</li><li>• Green Technology and Alternative Energy</li></ul>	<ul style="list-style-type: none"><li>• Emergency Management and Homeland Security</li><li>• Police Science and Criminal Justice</li></ul>	<ul style="list-style-type: none"><li>• Aviation Operations</li><li>• Pilot's license</li></ul>

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# COMMON CORE SHIFTS

## *6 Shifts* in ELA/Literacy

Balancing Informational and Literary Text  
Building Knowledge in the Disciplines  
Staircase of Complexity  
Text-based Answers  
Writing from Sources  
Academic Vocabulary

## *6 Shifts* in Mathematics

Focus  
Coherence  
Fluency  
Deep Understanding  
Applications  
Dual Intensity

# ELA SHIFTS IN CTE

## 6 Shifts in ELA/Literacy

1. Balancing Informational and Literary Text  
Building Knowledge in the Discipline  
Staircase of Complexity  
Text-based Answers  
Writing from Sources  
Academic Vocabulary
2. Technical Manuals,  
Pharmacy Law,  
Trade Journals, Union  
Publications
3. College  
Articulations/Texts
4. Writing Assignments
5. Library Databases,  
Government Websites
6. Scientific Vocabulary

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# MATH SHIFTS IN CTE

1. Concepts must be mastered to proceed
2. Connecting concepts completes projects
3. Speed and Accuracy are Expected
4. Two-year Sequences in Specific Careers
5. Tech is Integrated Math
6. Extended Applications

## 6 Shifts in Math

Focus  
Coherence  
Fluency  
Deep Understanding  
Applications  
Dual Intensity

# GRADUATION RATE

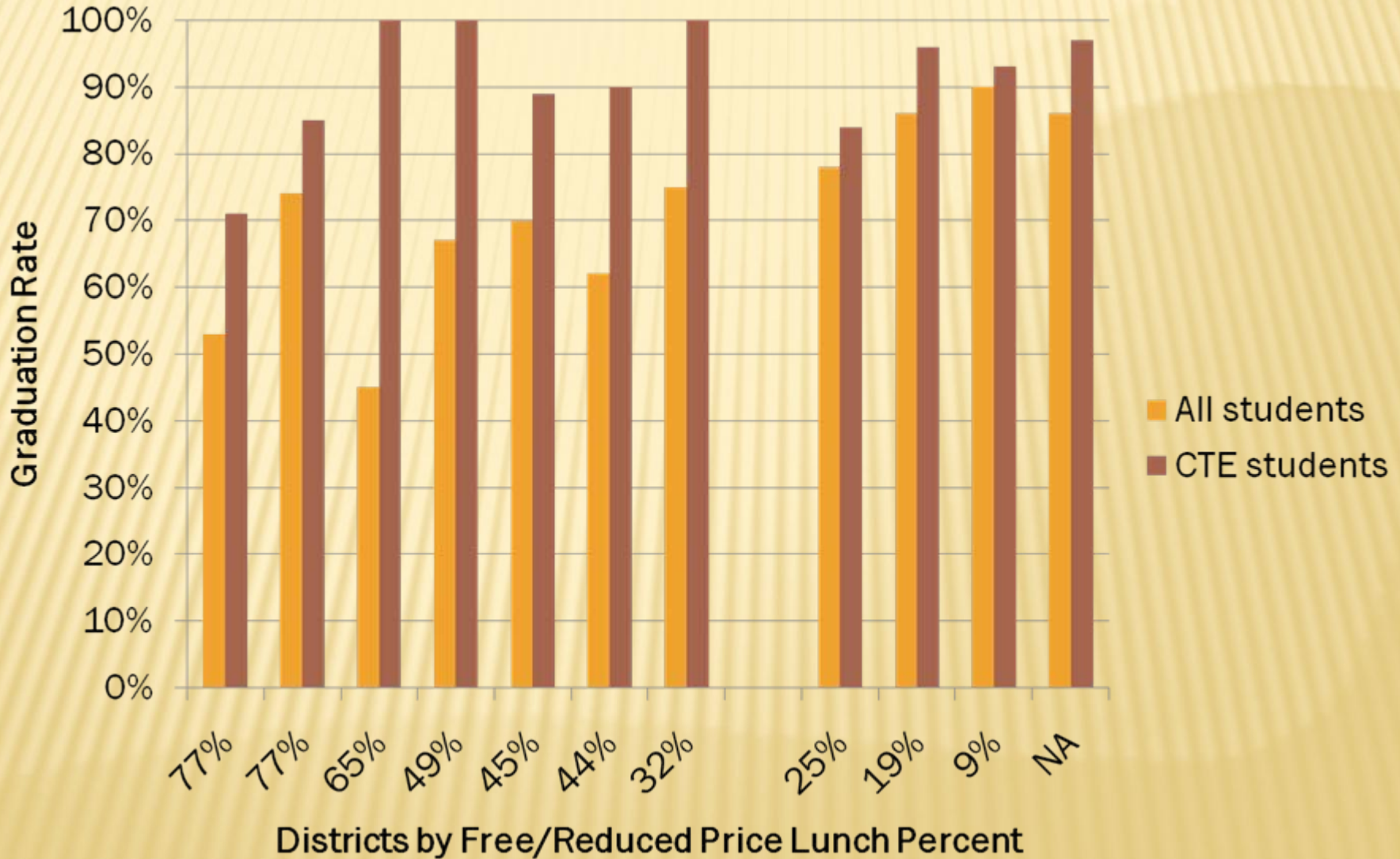
	Barry Tech (BOCES CTE)	Nassau County Average
General Education	91.5%	87.7%
Special Education	76%	71%

Nassau BOCES Graduation Guarantee –  
Any student who attends for 2 years but doesn't  
graduate gets a 3<sup>rd</sup> year free.



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# BARRY TECH VS. LARGEST SENDING DISTRICTS



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# College and Career Education Ready

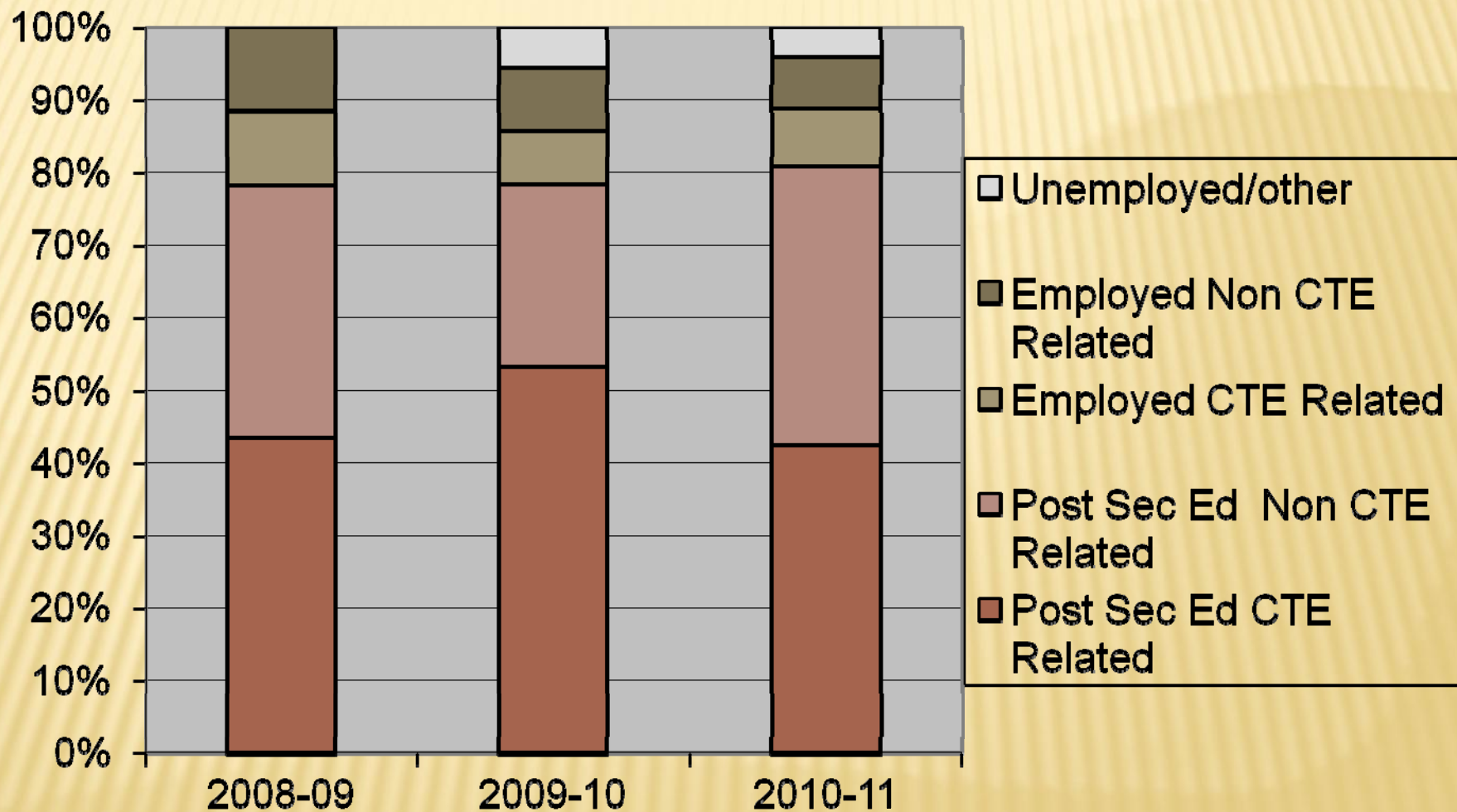


# COLLEGE ARTICULATION/PARTICIPATION

- ✘ 153 Articulation Agreements for 31 Programs
  - + Guaranteed Admission
  - + Advanced Standing (2<sup>nd</sup> Semester Freshman)
  - + College Credits (From 3 to 23!)
  - + Dual Enrollment (Adjunct Faculty On-Site)
  
- ✘ 70%+ Post-Secondary Enrollment
  
- ✘ 96% Enrolled/Employed after 6 Months

# SIX MONTHS POST-SECONDARY STATUS

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NOTE: Data reflects students who were contacted 6 months after graduation from Barry Tech.

2008-09 post graduate survey did not collect unemployment & military data, In 2009-10 & 2010-11 Employed Non CTE Related includes post grads in military (1%)

# ASPIRATIONAL PERFORMANCE MEASURE



What level of performance on  
CTE + Regents ensures  
no remediation?

# CTE SEQUENCES

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## Current

11 – CTE Year 1

12 – CTE Year 2

## ✘ Problems:

- + Integrated coursework too late → remediation
- + Missing science/math sequences → lost options
- + Some students disengaged before 11<sup>th</sup> grade.

# PROPOSED CTE SEQUENCES

Middle School	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Current				
—	—	—	CTE Year 1	CTE Year 2
Proposed				
Interests and aptitudes;  Summer exploratory	Map pathway to “13 <sup>th</sup> year”  Ensure science sequence	CTE Year 1	CTE Year 2  College/ Career Readiness benchmark; NOCTI; NWRC,	Internship; advanced study;  (remediation)
