Clean Technologies & Sustainable Industries Early College High School

HVCC North Campus
Partnering Business, Government and Academia

Agenda

- Welcome
- Program Overview
  - Adrienne Snow, Program Coordinator
  - Christina Carlson, School Counselor
  - Krystian Slater, Alumni, Saratoga Springs
  - Lila Hiegl, 11th Grade, Ballston Spa High School
  - Collin Flynn, 11th Grade, Ballston Spa High School
  - Brad Pingelski, 12th Grade, Ballston Spa High School
  - Bethany Russo, 12th Grade, Ballston Spa High School
  - Madeline Tse, 12th Grade, Burnt Hills Ballston Lake High School
  - Claudia Warren, 12th Grade, Mechanicville High School
- Q & A
- Tours (A-L) STEM Education Center; (M-Z) TEC-SMART then switch

What is P-TECH?

- No cost to students & families

- Students have up to 2 years after senior year to complete the degree

- Covers cost of tuition, textbooks, parking, fees, etc.

- Students MUST stay in degree pathway

- Students are only allowed to retake 1 college course under the grant

- Years 5 & 6- monthly check ins, connection to services, assistance in transfer process

- First in line for job with business & industry partner

Differences Among Programs

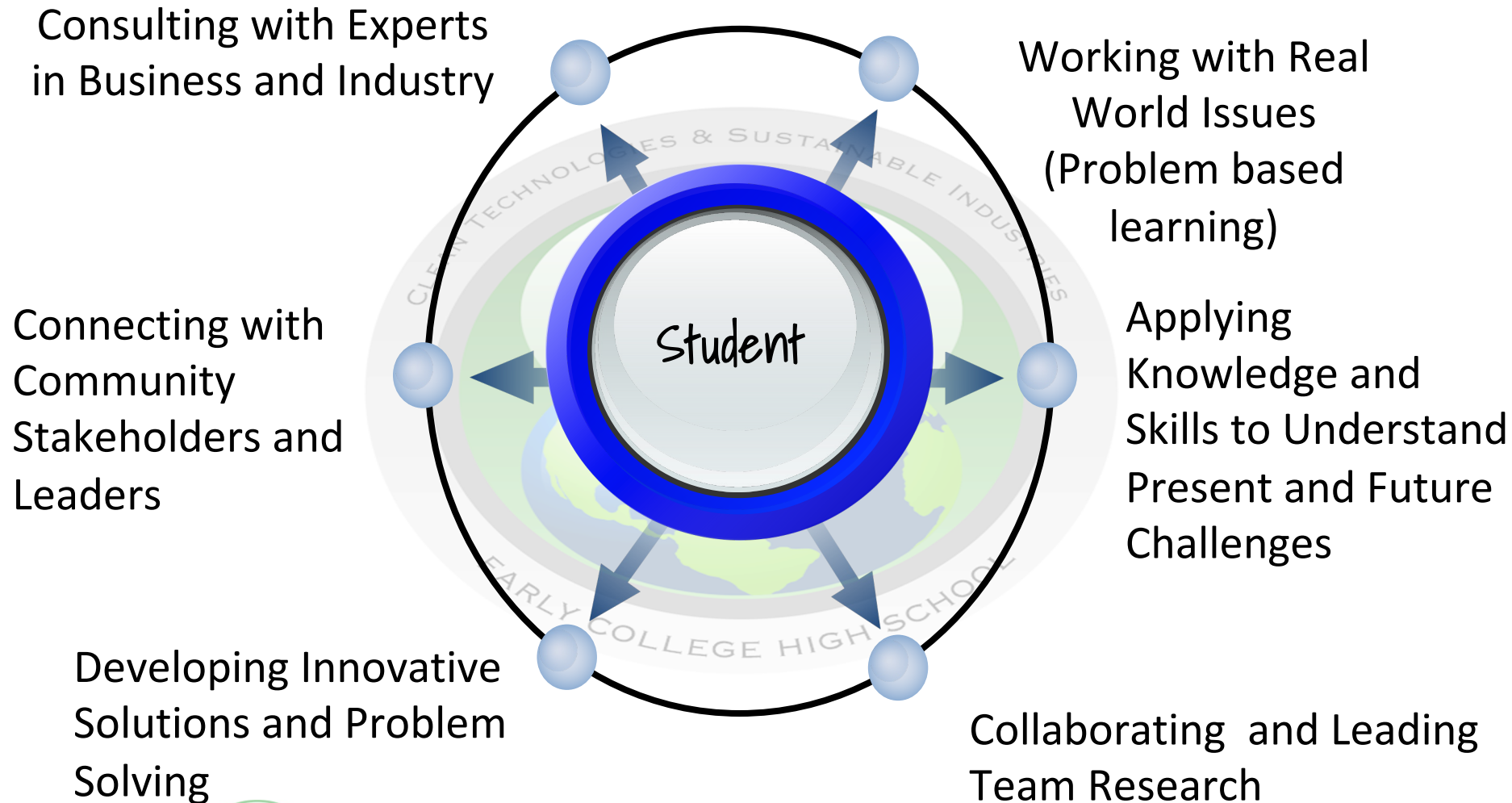| Clean Tech ECHS (HVCC)	Southern Adirondack (SUNY Adirondack)
• Clean Energy • Hacking & Cybersecurity • Community & Public Health • Engineering Sciences • Entrepreneurship • Surgical Technician	• Advanced Manufacturing • Information Technology/Computer Networking

<u>HVCC North:</u> Half Day Program; still attend afternoon classes at home school & participate in activities
<u>HVCC Troy:</u> Full Day

Transdisciplinary Learning for College & Career Readiness

Consulting with Experts in Business and Industry

Working with Real World Issues (Problem based learning)

Connecting with Community Stakeholders and Leaders

Student

Applying Knowledge and Skills to Understand Present and Future Challenges

Developing Innovative Solutions and Problem Solving

Collaborating and Leading Team Research

Hudson Valley Community College

TEC SMART
Training and Education Center for Semiconductor Manufacturing and Alternative and Renewable Technologies

Ballston Spa
CENTRAL SCHOOL DISTRICT
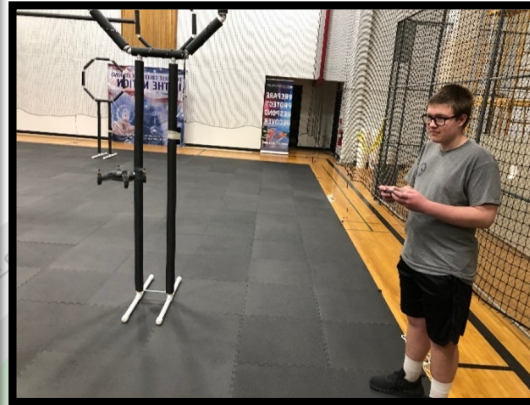Educating Everyone Takes Everyone

Student Characteristics

- Motivated to learn in new and exciting ways

- Innovative and creative

- Interested in Science, Technology, Engineering, and Math

- What will the program help you with?
    - Build on Collaboration Skills
    - Build on Critical Thinking/ Problem Solving Skills
    - Build on Organizational Skills
    - Build on Time Management Skills

Clean Energy

Hacking & Cybersecurity

Entrepreneurship

Engineering Sciences

Health Related Fields (Community & Public Health, Polysomnography, Surgical Technician)

9th Grade

- Summer Bridge July 15-17
- Online High School Course with monthly visits to TEC-SMART half day only (1.0 HS Credit)

10th Grade

- Summer Bridge Program
- Online High School Course with 1 visit to TEC-SMART each month (1.5 HS Credits)
- HVCC College Forum Online 1.0 credit (Fall of sophomore year)
- HVCC Sociology Course Online 3.0 credit (Spring of sophomore year)

11th Grade

- On Site Half Day Morning (7:50 AM- 10:50 AM)
- High School- 3 courses (English 11, Math/Technology, Environmental Science & Sustainability)
- 4 HVCC College Courses (2 Courses each semester; Surg Tech only 1 Fall 23)
- Summer Week Long Work Based Learning Experience

12th Grade

- On Site Half Day Morning (7:50 AM- 10:50 AM)
- High School- 3 courses (CHS English Composition I, Green Economics & Public Policy, Nanotechnology)
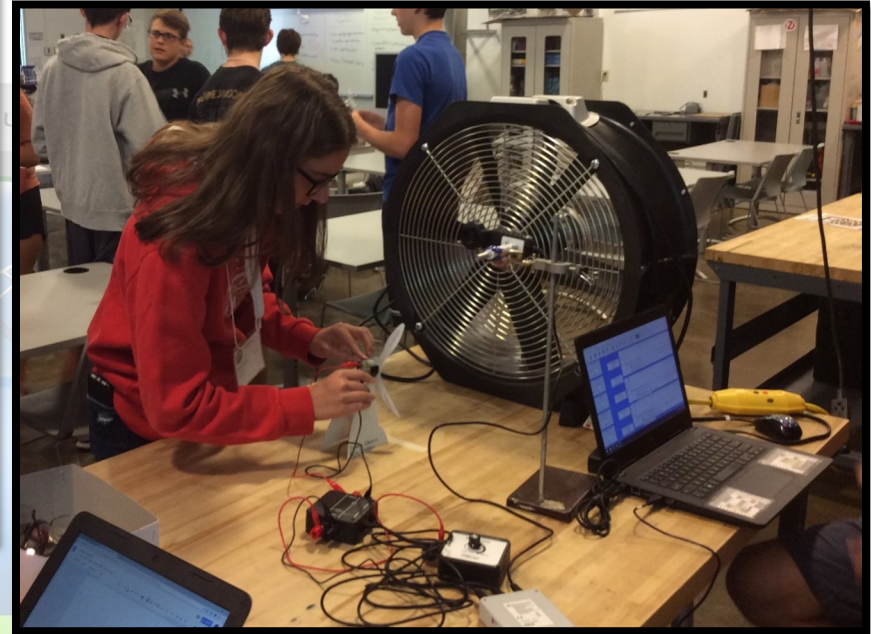- 4 HVCC College Classes (1-2 Courses each semester based on pathway)

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Clean Tech 9ᵗʰ Grade Overview:

Weekly online assignments & visit 1x a month for half day

10th Grade

Weekly online assignments & visit 1x a month for half day

11th & 12th Grade

- Half day morning at TEC-SMART for high school & college coursework

- College Pathway Selection
  - 1-2 college courses each semester from HVCC college professors on college campus (Up to 36 credits by end of senior year)

- Work Based Learning

- Service Learning

- Job Shadows, Shark Tanks, Authentic Audiences, Project Exhibitions, On Site Mentoring with Industry Partners

Junior Year

- Classes
  - Environmental Science & Sustainability
  - Applied Mathematics in Clean Tech
  - English 11
- Example Topics
  - Bioenergy
  - Food & Agriculture (WFP)
  - Energy Audits
  - Microhousing
  - Impact of Wind Energy
  - Group Capstone Project
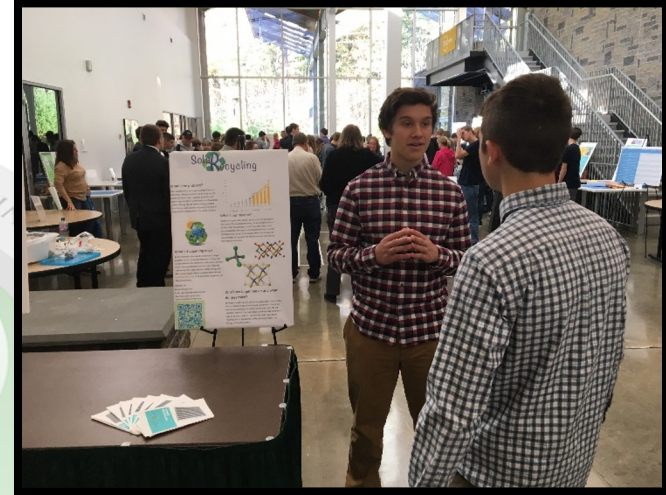

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Senior Year

- Course
  - Intro to NanoTechnology
  - Green Economics & Public Policy
  - CHS English Composition I
- Themes:
  - College Essay Writing & Application Process
  - Why Nanotechnology?
  - Marketing
  - Role of Technology in the Political & Economic Environment
  - Microelectromechanical systems & cantilevers
  - Solar energy systems
  - Pushing the boundaries of nanotechnology
  - Globalization in the workforce
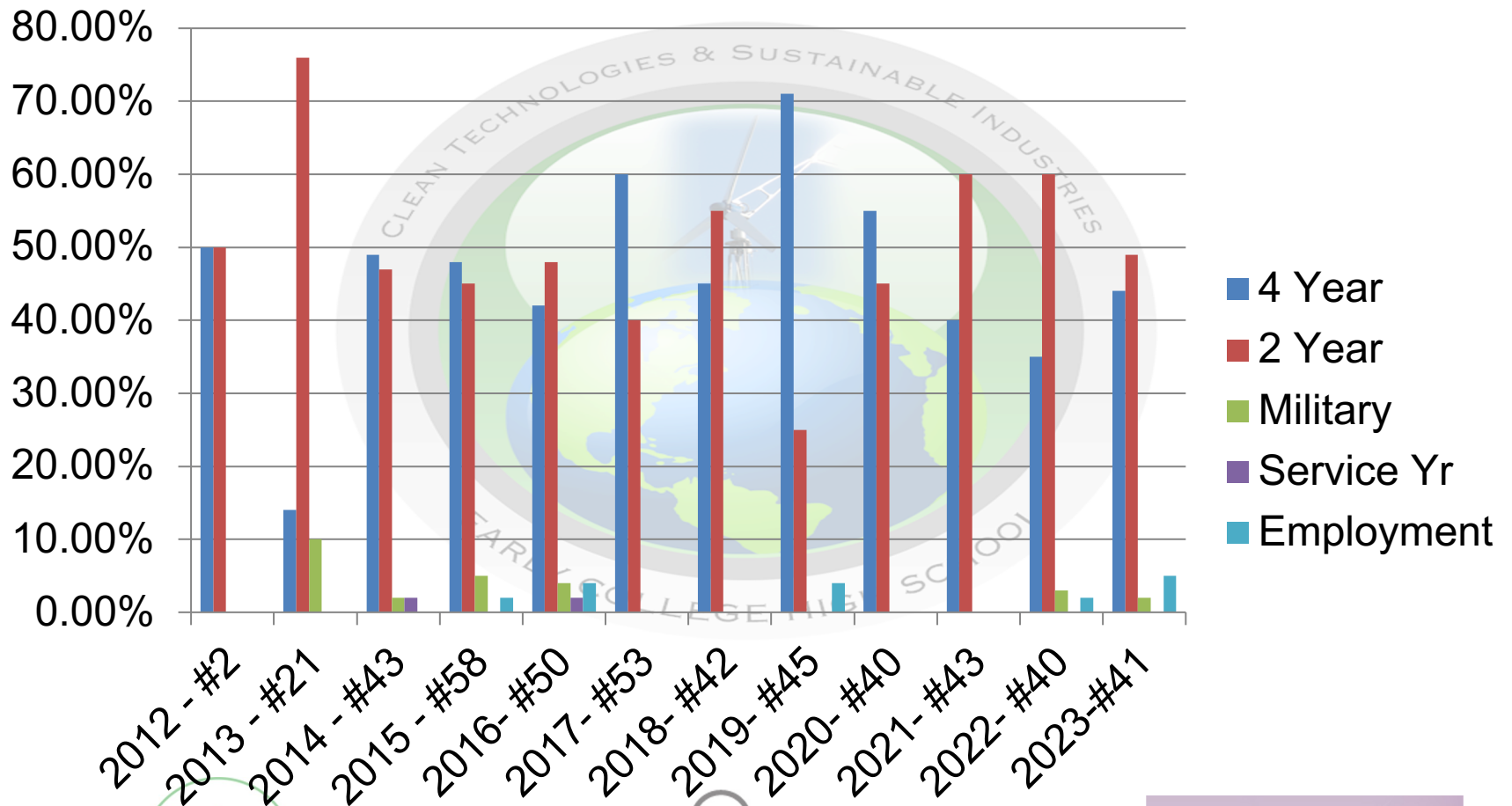 - Capstone Project

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Student Experiences

Student Life

Student Life

Graduation Statistics - Future Plans

Colleges & Universities

Adirondack Community College
Alfred University
Allegheny College
American University
Binghamton University
Cedarville University
Champlain College
Clarkson University
College of Nanoscale Science & Engineering
Cornell University
Drexel University
East Stroudsburg University
Embry Riddle Aeronautical University
Green Mountain College
Herkimer County Community College
Hudson Valley Community College
Keene State College
Lyndon State College
Marist College
Middlebury College
Mohawk Valley Community College

Monroe Community College
Motlow Community College
Northeastern University
Oregon Institute of Technology
Oregon State University
Pace University
Paul Smith's College
Pennsylvania State University
Philadelphia University
Rochester Institute of Technology
Russell Sage
Sage College of Albany
Siena College
St. Anselm College
St. John Fisher College
St. Lawrence University
Suffolk University
SUNY Brockport
SUNY Canton
SUNY Cobleskill
SUNY College of Environmental Science & Forestry

SUNY Polytechnic Institute
SUNY Potsdam
The Citadel
SUNY Delhi
SUNY Oneonta
SUNY Oswego
SUNY Plattsburgh
Union College
United States Merchant Marine Academy at Kings Point
University at Albany
University at Buffalo
University at Colorado at Boulder
University of New Hampshire
University of New Haven
University of Prince Edward Island
University of Rochester
University of South Carolina
University of Tampa
Utica College
Western New England University

College Majors

Accounting
Arboriculture &
Landscape Management
Aeronautical Engineering
Aerospace Engineering
Astrophysics
Astronomy
Atmospheric Sciences
Biochemistry
Bioengineering
Biological Sciences
Biology
Biomedical Engineering
Business Management
Civil & Environmental
Engineering
Clean Energy Mgmt
Communication &
Creative Media
Computer Science
Criminal Justice
Cybersecurity

Electrical Construction
Electrical Engineering
Embedded Systems &
Control
Engineering Science
English
Entrepreneurship
Environmental Policy
Environmental
Resources Engineering
Environmental Science
Exercise Science
Film
Finance
Heating Ventilation &
Cooling
Human Biology
Individual Studies
Industrial Engineering
International
Business/Relations
IT Networking

Liberal Arts & Sciences
Marine Engineering
Marketing
Math
Mechanical Engineering
Technology
Music Industry
Nanotechnology
Natural Resource
Management
Nursing
Physical Therapy
Physics
Pre-Law
Psychology
Theatre
Therapeutic Horsemanship
Visual Communication
Design
Zoology

Student Supports

- Student Mentoring
- Tutoring Services
- Teacher Advisors
- On Site School Counselor & Administrator
- HVCC Workshops
- Home School Visits
- College Support Website

School Counseling Services

- Academic Support

- Social/Emotional Support

- Post-Secondary Planning

- Scholarship Opportunities

- College Visits

- Liaison with home school counseling office

- School Counselor Resource Page

2024-2025 Incoming Student Application Process:

- Applications are available on our website:
  - https://www.bscsd.org/domain/839
- Students complete application and return to home school counselor.
- Home school will review and send selected applications to Ballston Spa Central School District by May 10th
  - ***Individual schools have their own criteria & selection process***
- Preference will be given to underrepresented groups in a STEM field
- Enrollment decisions will be made by early June

Contact Information

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