



Business • Family & Consumer Sciences • Technology
Industry Advisory Board

Board of Education Presentation

November 18, 2025

CTE

www.smithtowncte.com

About Us

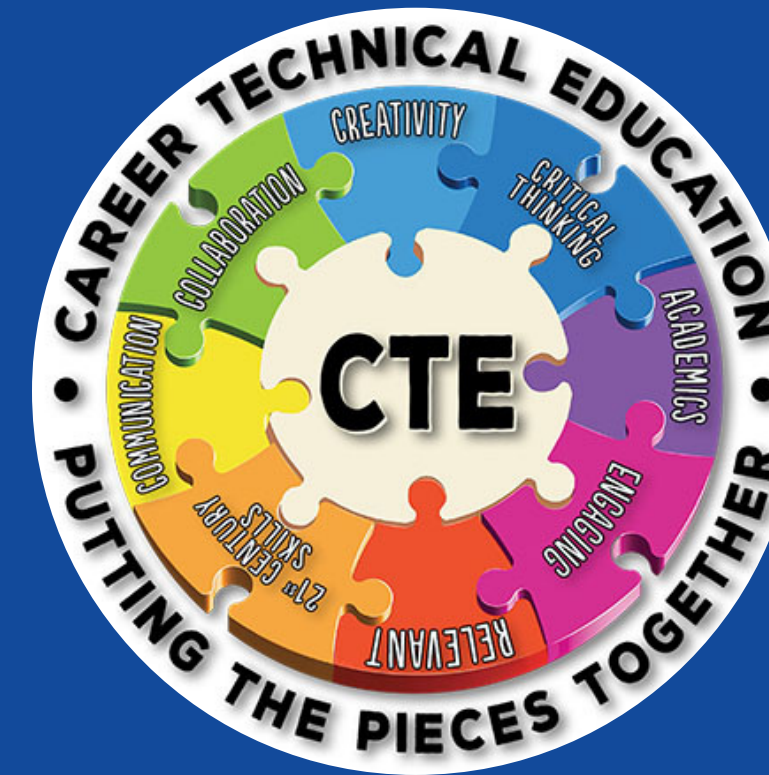


Our Program

Smithtown CTE empowers every student with the technical skills, academic knowledge, and professional behaviors necessary to successfully enter the workforce, pursue post-secondary education, and thrive as innovative and contributing members of the global economy.

What we provide

- Academic subject matter taught with relevance to the real world
- Employability skills, from job-related skills to workplace ethics
- Career pathways that link secondary and postsecondary education
- Cultivate critical thinking and problem solving skills
- Education for additional training and degrees, especially related to workplace training, skills upgrades and career advancement



CTE Director: Christine LoFrese
clofrese@smithtown.k12.ny.us

BUSINESS EDUCATION COURSEWORK

College Level Coursework

Smithtown Course	College	Credits
College Introduction to Real Estate	LIU	3
College Fashion Marketing	LIU	3
College Fashion Apparel & Accessories	LIU	3
College Entertainment Marketing	LIU	3
College Virtual Enterprise	LIU	6
College Business Law	LIU	6
College Marketing	LIU	6
College Computer Applications	LIU	3
College Sports Management	LIU	3
College Personal Investments	LIU	3
College Accounting	SUNY Farmingdale	3
College Accounting 2	SUNY Farmingdale	3

Up to
45 College Credits
through
accredited
post-secondary
institutions

Foundation Courses:
Keyboarding & Computer Applications
Accounting
Introduction to Business
Personal Financial Management
Sports Marketing
Wallstreet
College and Career Planning
Career Essentials: Workforce Ready

AWARD WINNING VIRTUAL ENTERPRISE INTERNATIONAL FIRMS



VIRTUAL
ENTERPRISES
INTERNATIONAL

The Smithtown Virtual Enterprise Program has grown by leaps and bounds, earning high level accolades year after year.

What we provide

- **Career Readiness**
- **Immersive Learning**
- **Global Perspective**



SPREADING FINANCIAL LITERACY THROUGHOUT THE DISTRICT

*High school
students teach
basic
business/civic
lessons to
elementary
school students
grades K-5*

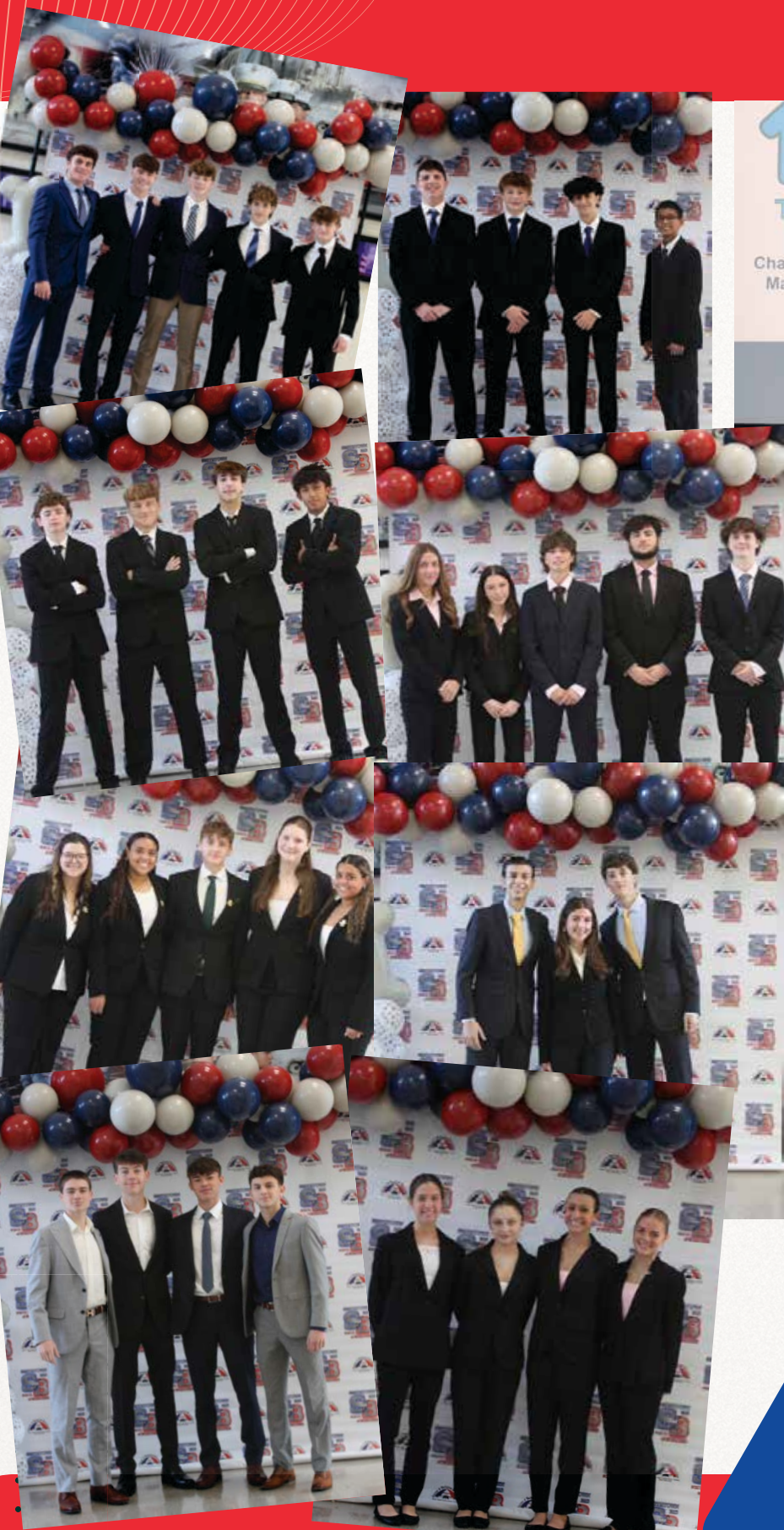


**Annual Financial
Literacy Conference**



BUSINESS OLYMPICS

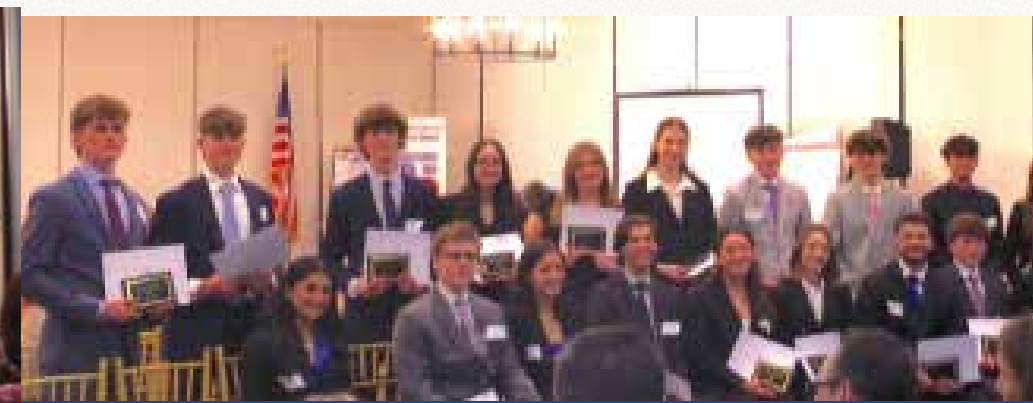
AN ANNUAL TRADITION FOR OVER 30 YEARS



**Helping students reach their potential
for life after high school**



**Over 90 students inducted into the Honor
Society, receiving their MBA or PhD**



BUSINESS ETIQUETTE DINNER & HONOR SOCIETY INDUCTION

FAMILY & CONSUMER SCIENCE

MIDDLE SCHOOL COURSES

6th Grade Curriculum

Personalities & Human Development:

- Families & Values
- Friendships & Peer Pressure
- Healthy Decision Making & Time Management
- Goal Setting & Future Planning

Fabric Care & Sewing:

- Fabric Label Reading
- Laundry Care
- Hand Sewing & Embroidery
- Machine Sewing
- Pillow Project



7th Grade Curriculum

Consumerism & Financial

Management:

- Budgeting & Managing Personal Finances
- Comparison Shopping
- Evaluating Advertisements & Sales

Interior Decorating & Sewing:

- Room Design & Colors in Design
- Dream Room - Dream vs. Reality (Budget)
- Sewing - Drawstring Bag

Nutrition & Foods:

- Healthy Meal Planning - MyPlate
- Nutrients & Superfoods
- Food & Kitchen Safety
- Recipe Reading & Cooking Labs

8th Grade Curriculum

Careers & Future Planning:

- Future Goal Setting
- Personalities & Brain Strengths (Myers Briggs & YouScience)
- Career Path Options & Planning
- Job Applications & Interviews
- Food Truck Project - Entrepreneurship

Child Development:

- Skills & Abilities (Birth - Pre-School)
- Healthy & Safety
- Caregiver Responsibilities

Foods:

- Food & Kitchen Safety
- Recipe Reading & Cooking Labs

FAMILY & CONSUMER SCIENCES

HIGH SCHOOL COURSES



Baking 1
Gingerbread Houses



Chef's Choice 2
Charcuterie Boards

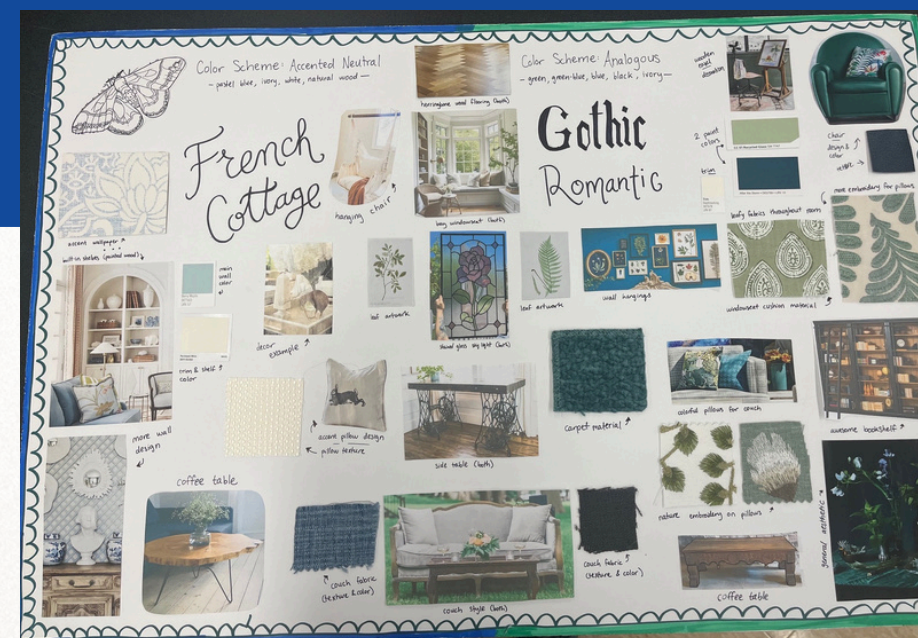


Food Science Thanksgiving Feast

Food & Nutrition

- Chef's Choice 1
- Chef's Choice 2
- Baking 1
- Baking 2
- Food For Life
- College Food Science

****College Food Science - may be used to meet the third-year science requirement & earn 4 College Credits****



Home & Personal Management

- College Interior Design
- Clothing Construction 1
- Clothing Construction 2

****Interior Design and Clothing Construction 1 can be used for art/music graduation requirement****

FAMILY & CONSUMER SCIENCES

HIGH SCHOOL COURSES



Egg Babies!

Hands-On Learning!



Real Care Babies



Preschool



Child Development & Preschool

- Child Development
- College Child Development
- College Early Childhood & Preschool
- Advanced Early Childhood & Preschool
- Advanced Leadership Early Childhood & Preschool
- Teacher Prep

HIGH SCHOOL PRESCHOOL PROGRAM

Our Early Childhood and Preschool classes have been successfully running a fully operational pre-school for over forty years.

Our program provides a pre-school for the children of the community. The high school students work one-on-one with the children as well as in group settings. The pre-school children are taught activities based on their individual needs as well as group activities such as arts and crafts, free play, story time, games and a healthy lunch made by the high school students.



Practical experience:

- Students get direct, hands-on experience in a real-world classroom setting.

Skill development:

- They develop teaching and communication skills by planning and implementing activities, such as reading stories, painting, and playing games.

Understanding child development:

- Students learn about physical, intellectual, emotional, and cognitive development by observing and interacting with young children

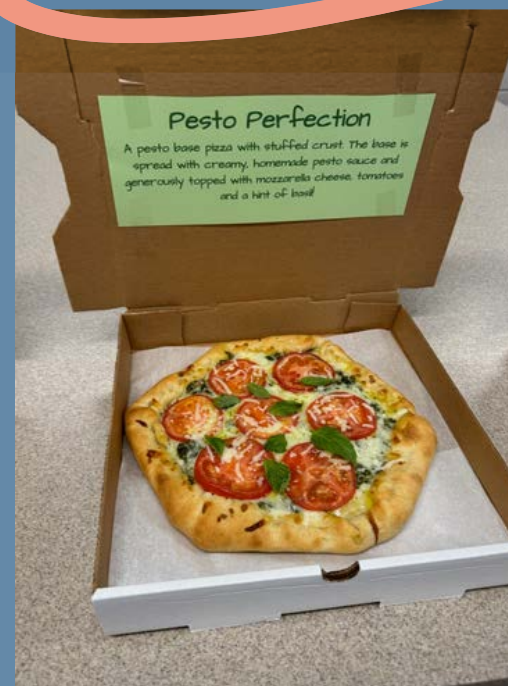
Cupcake Wars!



Event Planning Challenge



Challenge



Pizza Challenge



Guest Chef

Comfort sandwich challenge

Students Alexa Conlon, left, Victoria Roach and Eliza Pietranski make Mac 'n' Hash sandwiches, using a hash-brown bread filled with bacon, macaroni and cheese, topped with American cheese and served with a side of tomato soup, during a cooking class grilled-cheese contest Friday at Smithtown High School East in St. James.



Grilled Cheese Challenge!

FAMILY & CONSUMER SCIENCES

COLLEGE LEVEL COURSEWORK

Up to
13 College Credits
through
accredited
post-secondary
institutions

Course	College	Credits
College Interior Design	Suny Oneonta	3
College Food Science (Science with a Lab College Credit)	LIU	4
College Child Development	LIU	3
College Early Childhood and Preschool	LIU	3



BUSINESS & FCS CAREER PATHWAYS



CTE Endorsement - Accounting/Finance

☒ **Required Courses** (2.5 credits)

☐ College Accounting I (1 credit)
☐ Personal Financial Management (.5 credit)
☐ Wall Street: Introduction to Investments (.5 credit)
☐ College & Career Planning **OR** Career Essentials: Workforce Ready (.5 credit)
(formerly Career Jump Start)

☒ **Additional Courses** (choose from below - minimum of 1 credit)

☐ College Accounting II (1 credit)
☐ College Business Law (1 credit)
☐ College Personal Investments (.5 credit)
☐ Accounting (.5 credit)
☐ Introduction to Business (.5 credit)
☐ Business Math (1 credit)
☐ College Computer Applications **OR** Keyboarding (.5 credit)



☒ **Precision Exam 210 (Accounting)**

☒ **Work-Based Learning**

☐ Meet with Work Experience Coordinator to complete Employability Profile
☐ Work Experience (Paid or Unpaid)
☐ School of Business Programs
☐ IAB Events

Graduation Pathways - Can be used for Regents and Advanced Regents Diploma as a "4+1" Pathway



CTE Endorsement - Marketing

☒ **Required Courses** (2.5 credits)

☐ College Marketing (1 credit)
☐ Personal Financial Management (.5 credit)
☐ College Computer Applications **OR** Keyboarding (.5 credit)
☐ College & Career Planning **OR** Career Essentials: Workforce Ready (.5 credit)
(formerly Career Jump Start)

☒ **Additional Courses** (choose from below - minimum of 1.5 credits)

☐ College Virtual Enterprise (1 credit)
☐ College Accounting I (1 credit)
☐ College Entertainment Marketing (.5 credit)
☐ College Fashion Marketing (.5 credit)
☐ College Introduction to Real Estate (.5 credit)
☐ Sports Marketing (.5 credit)



☒ **Precision Exam 401 (Marketing)**

☒ **Work-Based Learning**

☐ Meet with Work Experience Coordinator to complete Employability Profile
☐ Work Experience (Paid or Unpaid)
☐ School of Business Programs
☐ IAB Events

Graduation Pathways - Can be used for Regents and Advanced Regents Diploma as a "4+1" Pathway

Preparing students for the future...

School Year	HSE Marketing	HSE Accounting/Finance	HSW Marketing	HSW Accounting/Finance	HSW Human Development	Total by year
20-21	3	0	4	0	0	7
21-22	4	0	1	0	0	5
22-23	2	1	1	1	0	5
23-24	5	5	7	0	0	17
24-25	9	5	7	6	1	28

... is also a **GROWING** Smithtown CTE tradition!



CTE Endorsement - Human Development

☒ **Required Courses** (3.0 credits)

☐ Child Development (.5 credit)
☐ College Child Development (.5 credit)
☐ College Early Childhood / Preschool (.5 credit)
☐ Advanced Early Childhood / Preschool (.5 credit)
☐ Advanced Leadership Early Childhood / Preschool (.5 credit)
☐ Personal Financial Management (.5 credit)

☒ **Additional Courses** (choose from below - minimum of .5 credit)

☐ College & Career Planning (.5 credit) **OR**
☐ Career Essentials: Workforce Ready (.5 credit)
(formerly Career Jump Start)



☒ **Precision Exam 320 (Child Development)**

☒ **Work-Based Learning**

☐ Meet with Work Experience Coordinator to verify eligibility
☐ Work Experience (Paid or Unpaid)
☐ Family & Consumer Sciences Programs
☐ IAB Events



CTE Endorsement - Food & Nutrition

☒ **Required Courses** (3.0 credits)

☐ College Food Science (1 credit)
☐ Chef's Choice I (.5 credit)
☐ Baking I (.5 credit)
☐ Personal Financial Management (.5 credit)
☐ College & Career Planning **OR** Career Essentials: Workforce Ready (.5 credit)
(formerly Career Jump Start)

☒ **Additional Courses** (choose from below - minimum of .5 credits)

☐ Chef's Choice II (.5 credit)
☐ Baking II (.5 credit)
☐ Food for Life (.5 credit)



☒ **Precision Exam 340 (Food & Nutrition)**

☒ **Work-Based Learning**

☐ Meet with Work Experience Coordinator to verify eligibility
☐ Work Experience (Paid or Unpaid)
☐ Family & Consumer Sciences Programs
☐ IAB Events

TECHNOLOGY EDUCATION

MIDDLE SCHOOL - REQUIRED COURSES



6th Grade

Science of Technology

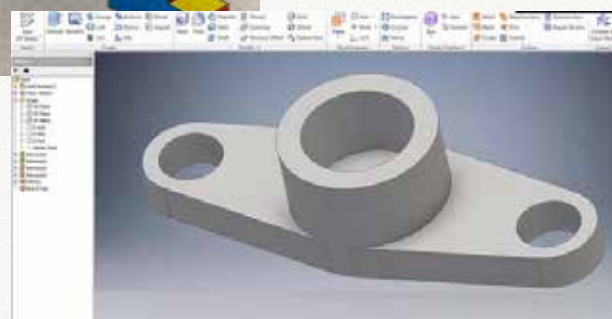
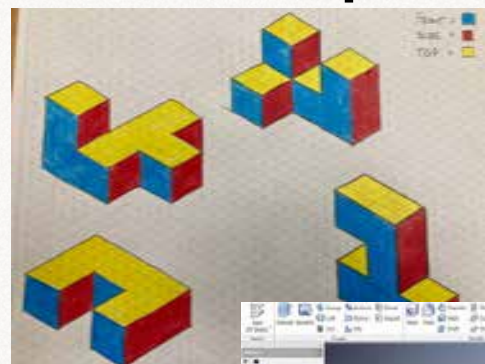
Apply the concepts of physics, chemistry, and nanotechnology to various technological challenges.



7th Grade

Design and Modeling

Use the design process, sketching, solid modeling, and mathematical models to creatively solve real-world problems.



8th Grade

Automation & Robotics

Build, program, and exercise creative problem solving to innovate and design automated solution prototypes for various users.



NON-PLTW

6th Grade

Technology Literacy

Effectively use, manage, and apply digital technology to achieve goals, solve problems, and create information.



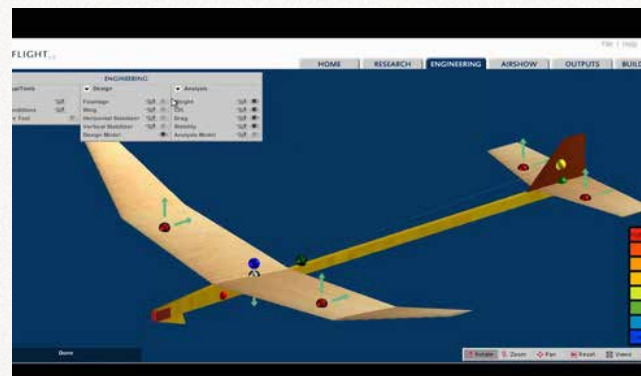
TECHNOLOGY EDUCATION

MIDDLE SCHOOL - ELECTIVE CLASSES

7th Grade

Flight & Space

Design, prototype, and test models to learn about the science of flight and what it takes to travel and live in space.



Energy & Environment

Explore sustainable solutions to our energy needs and investigate the impact of energy on the lives and the world.



8th Grade

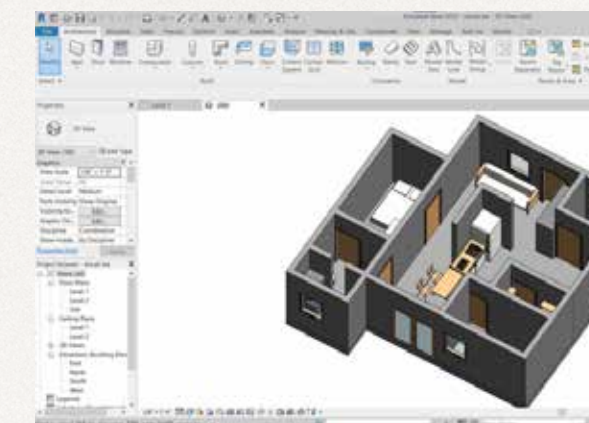
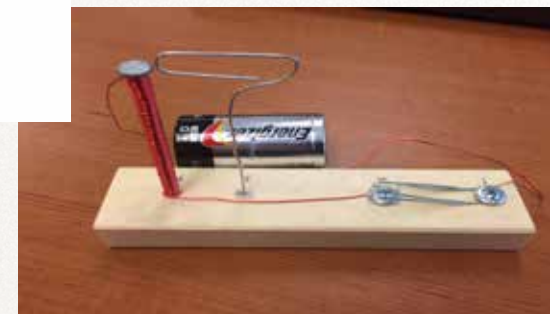
Magic of Electrons

Explore electricity, the behavior and parts of atoms, and sensing devices through hands-on projects



6-Band						= 274 Ω ± 2%, 250 ppm/K		
Color	1st Digit	2nd Digit	3rd Digit	Multplier	Tolerance	Temperature Coefficient		
Black	0	0	0	1 Ω	± 1%	100 ppm/K		
Brown	1	1	1	10 Ω	± 1%	100 ppm/K		
Red	2	2	2	100 Ω	± 2%	50 ppm/K		
Orange	3	3	3	1k Ω		15 ppm/K		
Yellow	4	4	4	10k Ω		20 ppm/K		
Green	5	5	5	100k Ω	± 0.5%	20 ppm/K		
Blue	6	6	6	1M Ω	± 0.25%	10 ppm/K		
Violet	7	7	7		± 0.1%	5 ppm/K		
Grey	8	8	8			1 ppm/K		
White	9	9	9					
Gold				0.1 Ω	± 5%			
Silver				0.01 Ω	± 10%			

4-Band	12 × 10 ³ ± 5%	1,200 kΩ ± 5%
5-Band	100 × 10 ³ ± 1%	10,000 Ω ± 1%



Green Architecture

Explore the fields of architecture and construction with dimensioning, measuring, and architectural sustainability while designing affordable housing units!



TECHNOLOGY EDUCATION

HIGH SCHOOL COURSES

Engineering and Design Courses

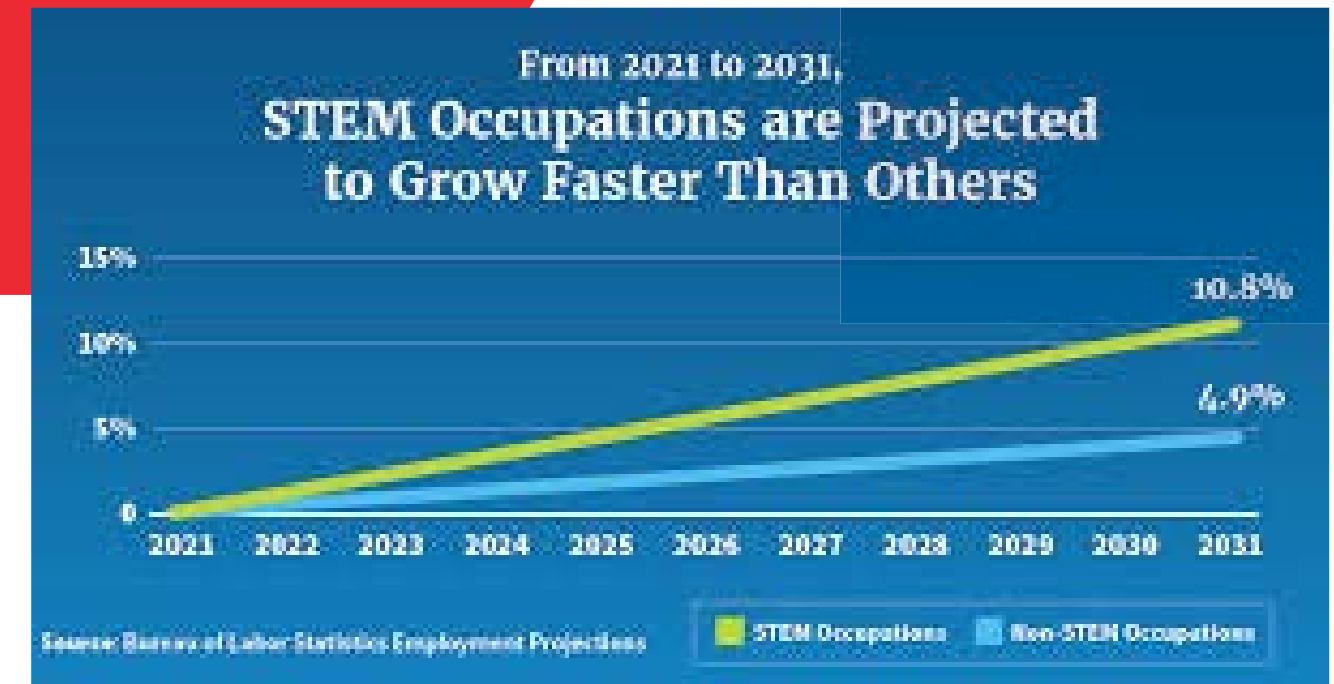
Design and Drawing Production: (DDP)

DDP: Architecture I and II

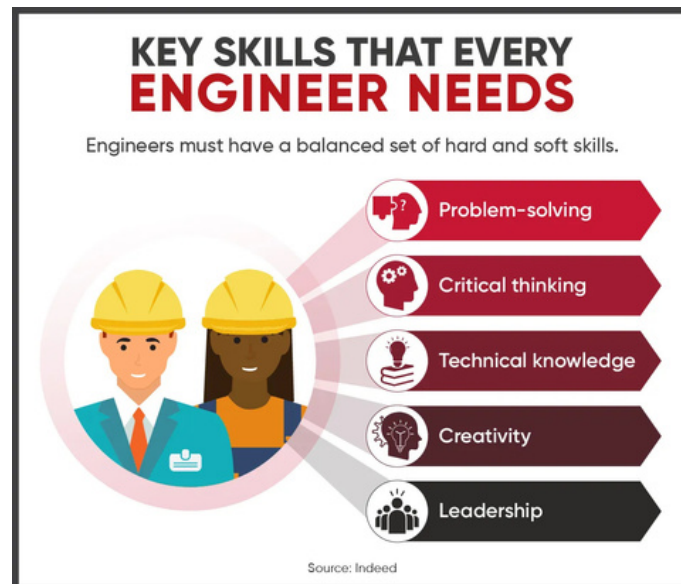
**** DDP & DDP Architecture may be used for art/music credit***

Computer Repair and Cybersecurity

Robotics 1 & 2



**Smithtown offers 12 college credits
in the field of engineering**



College Credit Courses

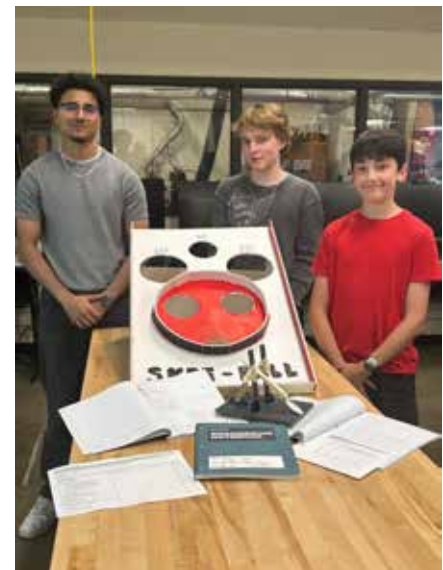
PLTW: IED- Introduction to Engineering and Design

PLTW: CIM- Computer Integrated Manufacturing

PLTW: POE- Principles of Engineering**

****may be used to meet the third-year math or science requirement****

Robotics II



TECHNOLOGY EDUCATION

HIGH SCHOOL COURSES

Skilled Trade Courses

Woodworking I & II

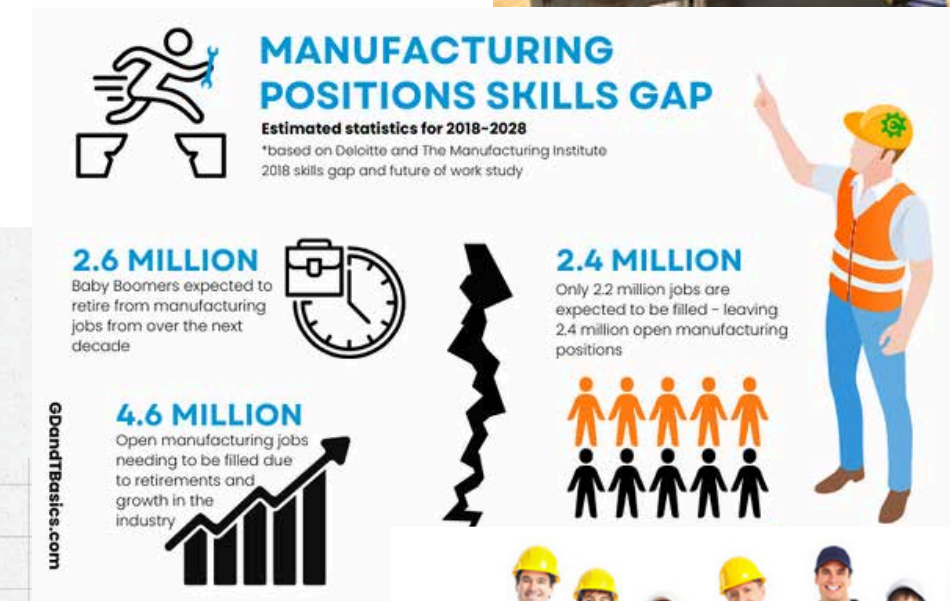
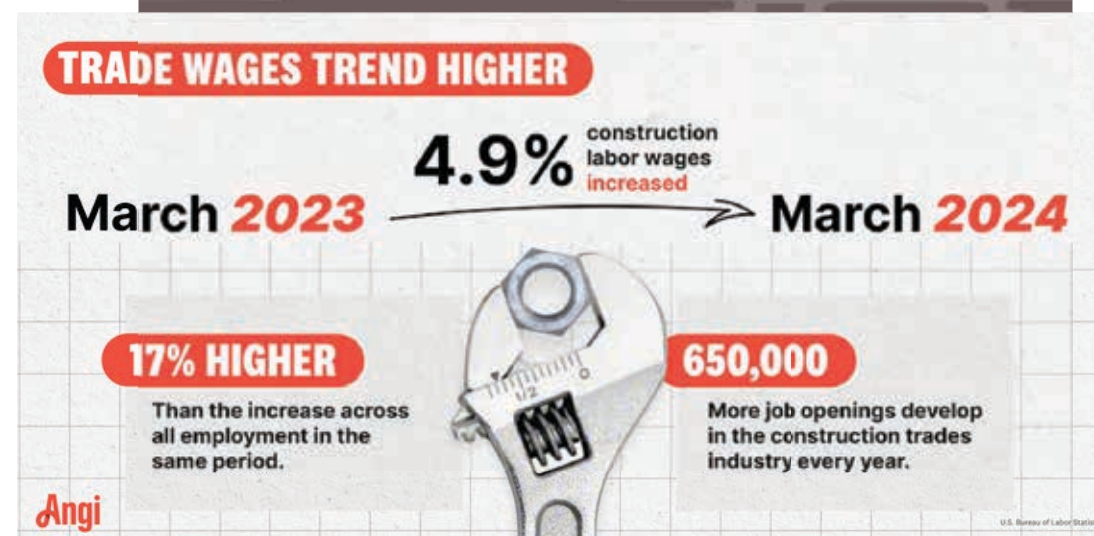
Automotive I & II

DIY: Introduction to Home Repair

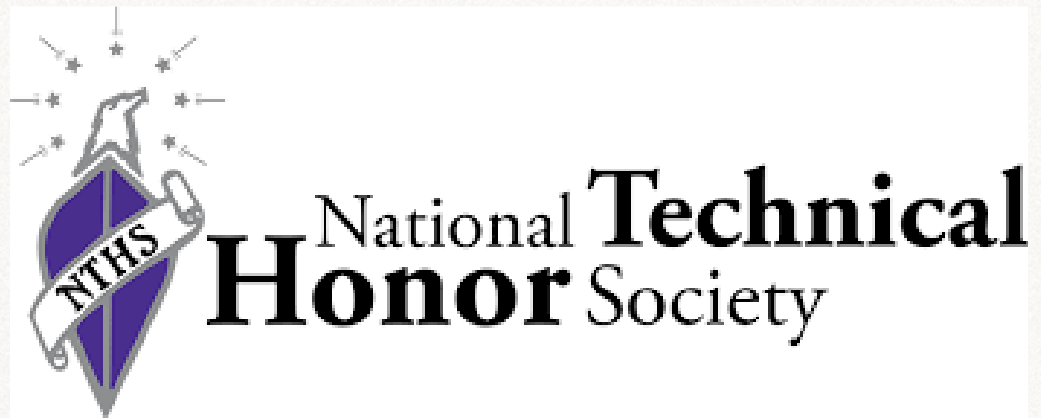
Small Engines

Basic Electricity and Electronics

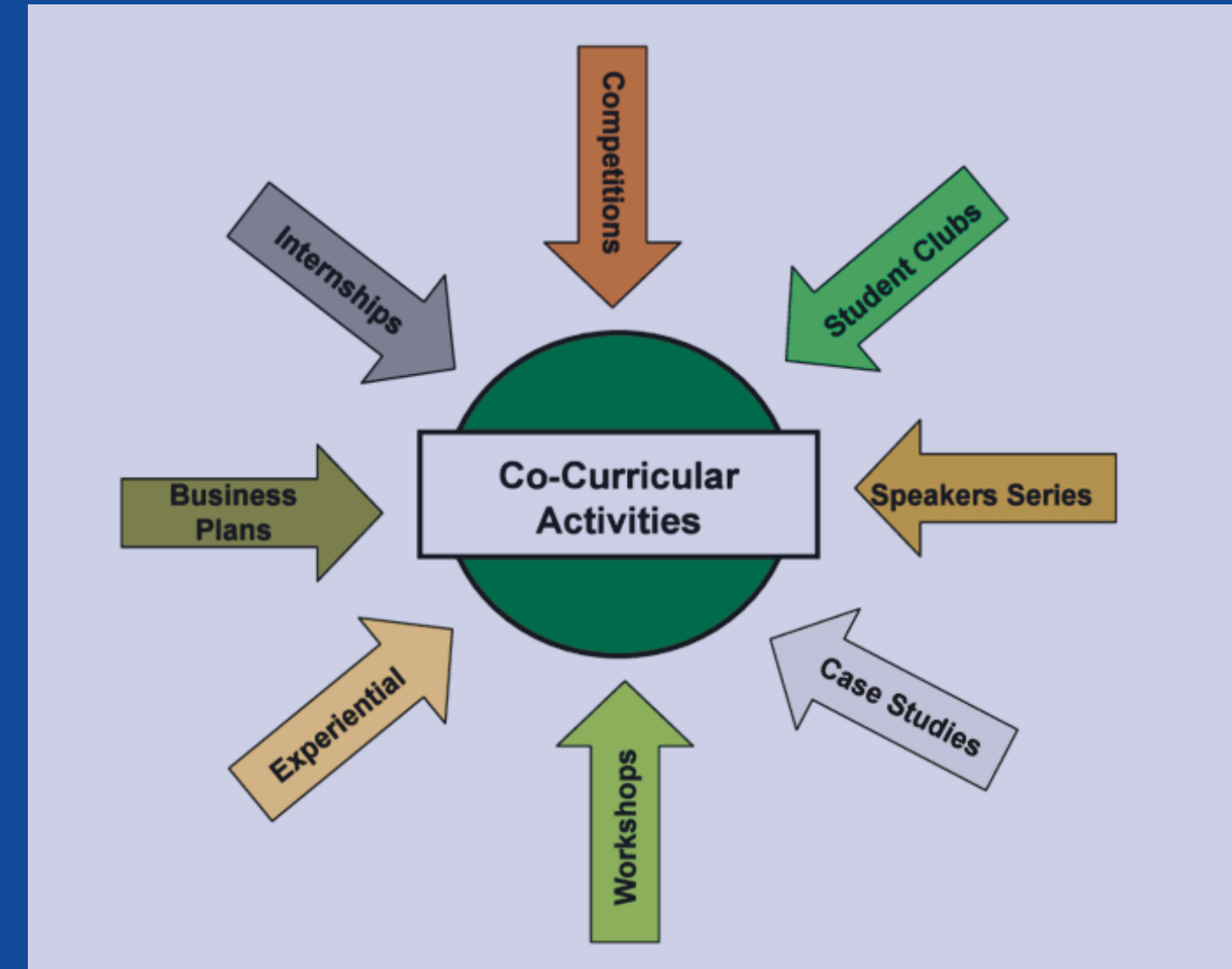
**Smithtown is proud to
continue to offer
introductory courses that
expose our students to a
variety of skilled labor
careers.**

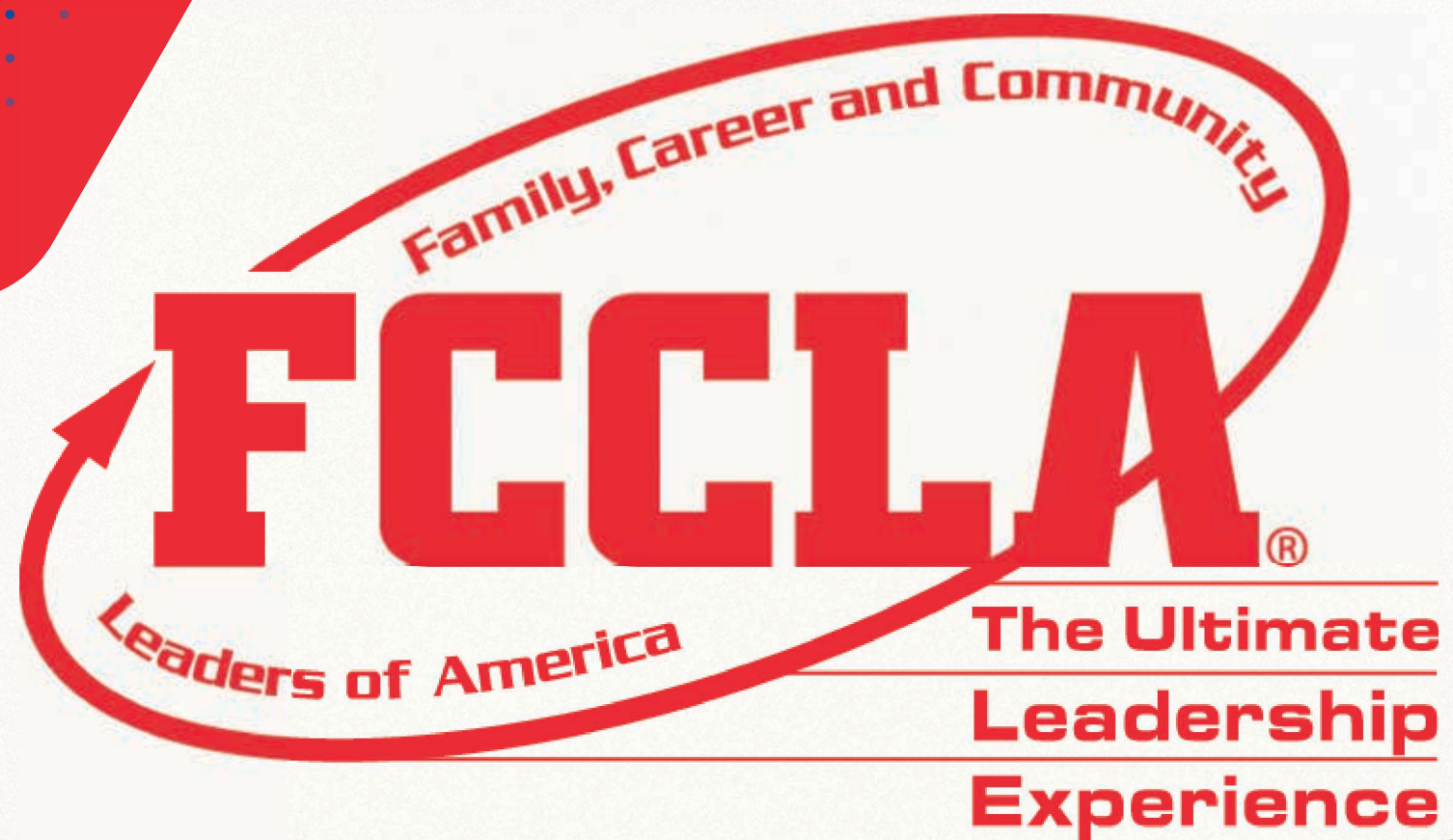


CLUBS



**SMITHTOWN FIRST ROBOTICS
TEAM 810**





FCCLA (Family, Career, and Community Leaders of America) is a national Career and Technical Student Organization for students in Family and Consumer Sciences education, serving grades 6-12. It empowers young people to become leaders in their families, careers, and communities by focusing on skills such as character development, critical thinking, communication, and career preparation through its national programs, competitive events, and leadership opportunities. FCCLA has made a concentrated effort to illustrate the connection with the Family and Consumer Sciences (FCS) Career Clusters.



FIRST LEGO ROBOTICS CLUB (MIDDLE SCHOOL)



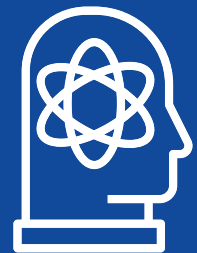
FIRST LEGO League Challenge:
This division involves friendly competition where teams research problems, design, build, and program an autonomous LEGO® robot to complete a robot game, and present their innovative solutions to judges.

SMITHTOWN *FIRST* ROBOTICS TEAM 810



Officers

President - Matthew Lomando
Vice President - Varshitha Prithvi
Head of Fabrication - Izzy Scioscia
Head of Electrical - Matthew Mayorga
Head of Programming - Jackie Tan
Head of Drafting - Seabass
PR - Ella Tezgiden
Operations - Algeth
Awards - Veronika Lashko



Mission Statement

Smitttown Robotics is about a lot more than simply building a robot. Our mission is to create the engineers, innovators, and leaders of the future by improving the quality of STEM education on our team and in our community through student-led, honorable, and passionate competition in *FIRST* Robotics.





DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe.



NATIONAL CURRICULUM STANDARDS

Reinforce career and academic standards identified by business and industry



21ST CENTURY SKILLS GAP

50% of graduates are not considered workforce ready by hiring managers



FINANCIAL LITERACY

75% of students graduate unprepared to manage finances



ENTREPRENEURIAL MINDSET

33% of employers are seeking entrepreneurship skills in new hires



PROJECT MANAGEMENT

97% of organizations believe project management is critical to business performance and success



TEACHER RECRUITMENT, ENGAGEMENT + RETENTION

81% of DECA advisors say that DECA makes teaching more meaningful and engaging



SMITHTOWN HS CAREER CENTER

PROMOTING CAREER AWARENESS FOR ALL STUDENTS

PREPARING STUDENTS FOR THE FUTURE WORKFORCE

Match Your Interests



Inventory of Career Assessments
to focus students
interests and skills

Explore Careers



Career Exploration Opportunities
through our Internship Programs or
The Smithtown IAB members

Tools You Can Use!

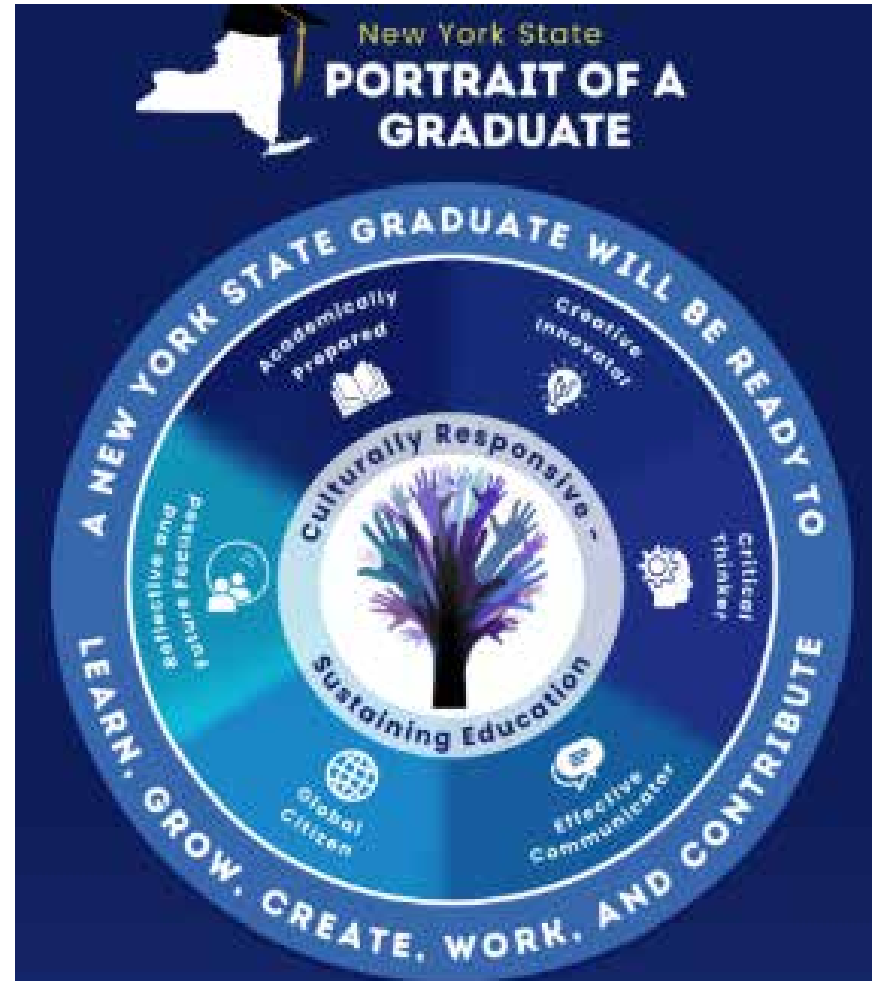


Smithtown IAB Mentors, Career
Awareness Events, Career Guest
Speakers

Making a Difference



Shadowing Experiences, Internship
Positions, PT Jobs and Professional
Development Workshops



WHAT DOES The Career Center Offer....?

Career Assessments
Career Research and
Exploration
College Major Research
Trade School Research
Interviewing Skills
Resume Writing
Job Shadowing Experiences
PT Employment Opportunities



SMITHTOWN INDUSTRY ADVISORY BOARD

ESTABLISHED 1977 BY SUSAN GUBING

Over 500
Industry
Partnerships

MISSION/PURPOSE:

Develop a workforce board that will enable us to better meet local employment and skills needs. To provide students with career opportunities through the Cooperative Work Experience Program.

Education

- Provide students with real work experiences.
- Career awareness events using industry partners.

Industry

- Advisory board members have direct contact with students through participation in K-12 career fairs, classroom workshops and presentations.
- Create links with schools for internships.
- Communicate industry needs/skills in the workplace.

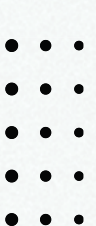


**“Stronger
Industry-Academia
Partnerships”**



- STEM Trade Show
- Speed Networking
- Healthcare Career Expo
- Women’s Leadership Conference
- Financial Literacy Day
- Mentoring Students
- Trade Career Fair





Areas of Future Growth



Expand CTE Pathway in Business to include Entrepreneurship



Add CTE Pathways in Technology - Construction/Trades and Engineering



Increase AP opportunities for Business Students - offer new *AP Business with Personal Finance*



Continue to evaluate course offerings to meet the needs of CTE Students



Thank You!



www.smithtowncte.com