



Academy of Information Technology & Engineering

Achieve. Innovate. Transform. Empower.

Why AITE?

- Smaller school setting
- Diverse staff and student body
- Authentic projects
- Real-world experience
- College readiness
- Career readiness
- Opportunities for collaboration and growth



What Makes AITE Special?

- Recognized as Project Lead the Way (PLTW) **School of Distinction**
- **Highly qualified faculty**, including 2 SPS Teachers of the Year and 1 PLTW National Teacher of the Year
- Tango Flight **Aviation Program**
- Only Connecticut high school offering the CIEE **Global Navigator Program**
- High graduation rates and college acceptance to 2- and 4-year schools



Our Vision of the Learner

- Students **communicate effectively**, orally and in writing, and utilize their communication skills for a variety of purposes and audiences.
- Students **collaborate effectively** with others to complete a task or a goal.
- Students **apply critical thinking skills** to solve problems and evaluate information.
- Students participate responsibly in their **local and global communities**.
- Students **demonstrate resilience** when they are flexible, persistent or can recover from failure or change.
- Students **demonstrate good moral character** when they are caring, responsible, trustworthy, fair, respectful, and/or good citizens.

Wall-to-Wall STEAM

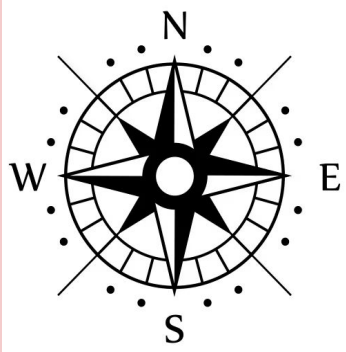
- Hands-on, project-based learning
- Inquiry and exploration at the core of every lesson
- Collaboration across subjects
- Creative and critical thinking
- Real-world problem solving
- Innovation through design challenges
- Communication and presentation skills
- Transferable skills



The STEAM Journey at AITE

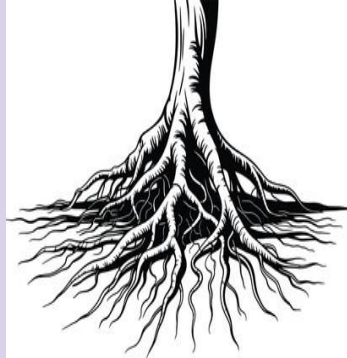
FRESHMAN

Exploration



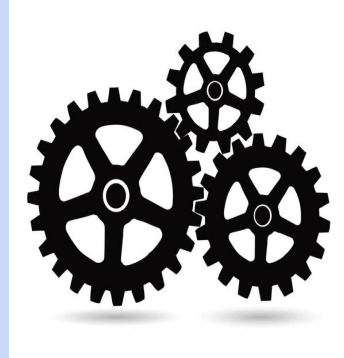
SOPHOMORE

Foundation



JUNIOR

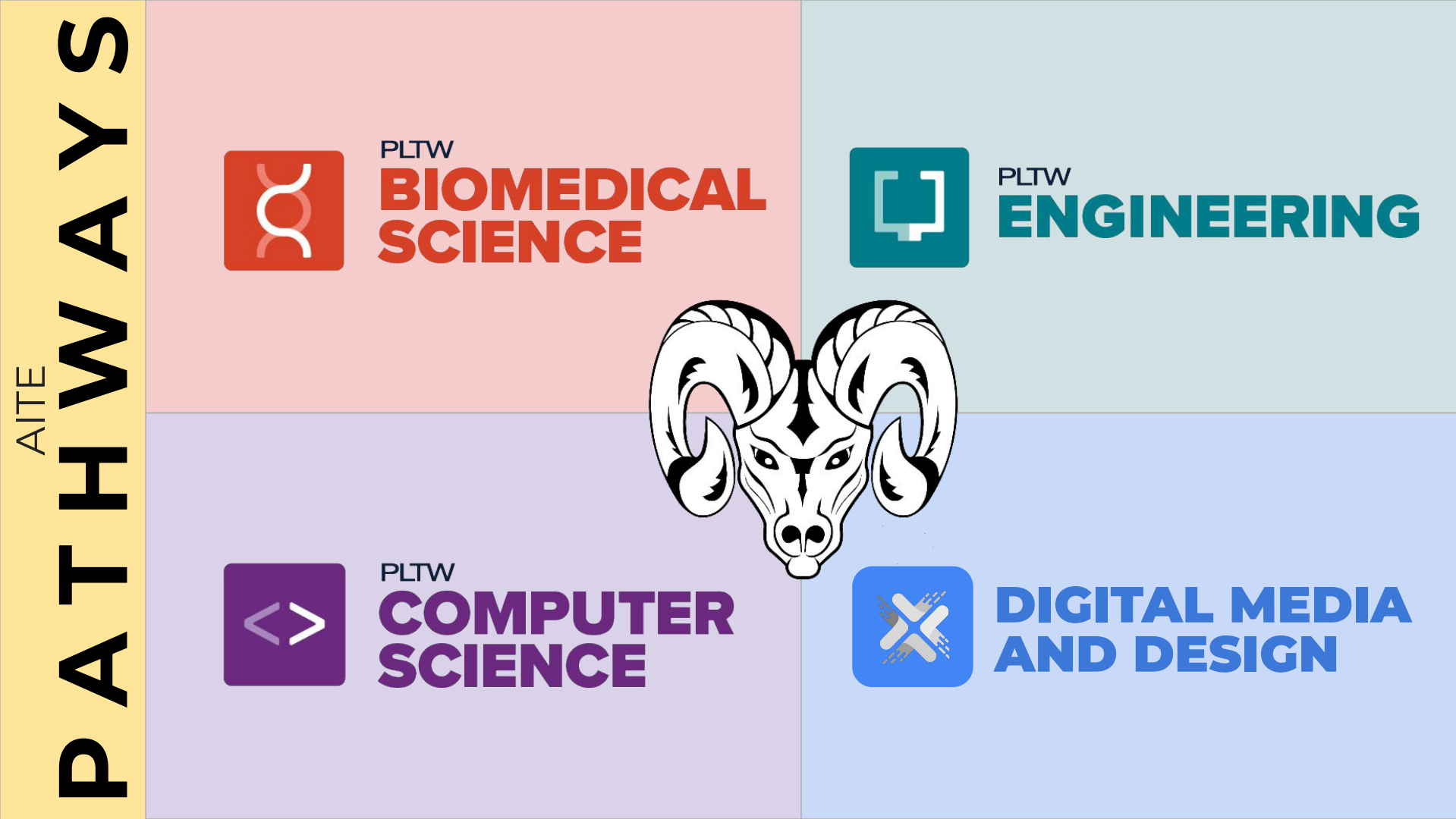
Specialization



SENIOR

**Capstone
and
Leadership**





AITE PATHWAYS



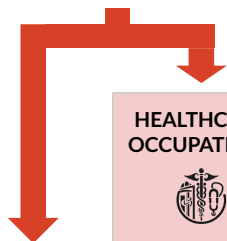
EXP AITE Exploratory



PBS Principles of Biomedical Science



HBS Human Body Systems



HEALTHCARE
OCCUPATIONS

MI Medical Interventions



CAPSTONE PLTW Capstone



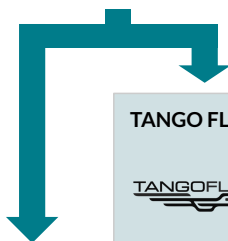
EXP AITE Exploratory



EES Engineering Essentials



POE Principles of Engineering



TANGO FLIGHT
TANGOFLIGHT™

DE Digital Electronics

CEA Civil Engineering and Architecture



CAPSTONE PLTW Capstone



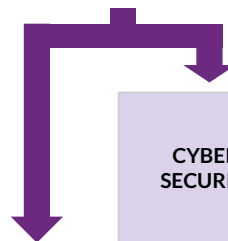
EXP AITE Exploratory



CSE Computer Science Essentials



CSP Computer Science Principles



CYBER-
SECURITY

CSA Computer Science A



CAPSTONE PLTW Capstone



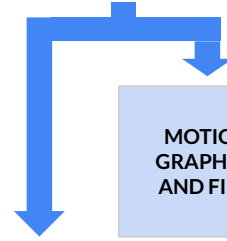
EXP AITE Exploratory



DME Digital Media & Design Essentials



VC Visual Communication



MOTION
GRAPHICS
AND FILM

2DG 2D Graphics



CAPSTONE PLTW Capstone



BIOMEDICAL SCIENCE PATHWAY

FRESHMAN

AITE Exploratory (EXP)

Students explore Biomedical, Engineering, Computer Science, and Digital Media before choosing a pathway. They gain insight into career opportunities and build a strong foundation to make informed decisions about their future studies and careers.

PLTW Principles of Biomedical Science (PBS)

Analyze the evidence found at a crime scene. Question, diagnose, and propose care for patients in a medical practice. Track down the source of a mysterious outbreak. Access and stabilize a patient during an emergency. Collaborate with professionals to innovate and design solutions to local and global medical problems.



SOPHOMORE

PLTW Human Body Systems (HBS)

Join a team of physical therapists and other medical professionals to diagnose and provide treatment and rehabilitation to patients at an outpatient center. Work as an intern in a research center and design a comprehensive laboratory investigation using a model organism. Keep clients safe and healthy on adventure trips in remote locations. Showcase a medical story or mystery at an interactive exhibit about the human body. Solve mini cases and medical challenges at the Quick Clinic!

**Pathway
Transfer**



JUNIOR

PLTW Medical Interventions (MI)

Play the role of biomedical professionals to analyze case information and diagnose and treat your patients. Investigate the medical interventions of the past and present, and brainstorm the innovations of the future. Students explore immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Healthcare Occupations



SENIOR

PLTW Capstone

Students engage in an open-ended research experience in the PLTW Capstone course, a culminating program for those completing PLTW's high school offerings. They collaborate in teams, designing and developing original solutions to well-defined and justified real-world problems.

Healthcare Occupations



Suggested Electives:

AP Chemistry, AP Biology, AP Physics 1, AP Statistics, AP Psychology, Introduction to Business

Certifications:

CPR, phlebotomist, EMT, CNA, Patient Liaison, Pharmacy Technologist, OSHA 10

Biomedical Science Pathway



ENGINEERING PATHWAY

FRESHMAN

AITE Exploratory (EXP)

Students explore Biomedical, Engineering, Computer Science, and Digital Media before choosing a pathway. They gain insight into career opportunities and build a strong foundation to make informed decisions about their future studies and careers.

PLTW Engineering Essentials (EES)

Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve the safety and well-being of local citizens.



SOPHOMORE

PLTW Principles of Engineering (POE)

Students explore how modern engineers help improve the world through diverse engineering fields, such as product design, mechanical design, infrastructure, and sustainability. Students learn and use some of the cutting edge tools engineers use in robotics, 3D modeling, programming, and prototyping.

**Pathway
Transfer**



JUNIOR

PLTW Civil Engineering and Architecture (CEA)

Students learn important aspects of building and site design and development, and then they apply what they know to design a commercial building.

PLTW Digital Electronics (DE)

Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry.



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Suggested Electives:

AP Physics 1, AP Physics 2, AP Physics C, Robotics, Materials Science, Architectural Drafting, Business

Certifications:

AutoDesk Certified user in Fusion 360, OnShape, AutoCAD, and Revit

Engineering Pathway





COMPUTER SCIENCE PATHWAY

FRESHMAN

AITE Exploratory (EXP)

Students explore Biomedical, Engineering, Computer Science, and Digital Media before choosing a pathway. They gain insight into career opportunities and build a strong foundation to make informed decisions about their future studies and careers.

PLTW Computer Science Essentials (CSE)

Students develop skills through hands-on projects, including mobile app development, self-driving vehicle simulations, and coding with Python. They transition from block-based to text-based programming while exploring concepts such as algorithms, conditionals, loops, and abstraction.



SOPHOMORE

PLTW Computer Science Principles (CSP)

Aligned with the AP Computer Science Principles framework, this course introduces students to key areas of computing, including data analysis, cybersecurity, internet structures, and creative coding. Students build real-world projects and develop a strong understanding of how computing impacts society.

**Pathway
Transfer**



JUNIOR

PLTW Computer Science A (CSA)

Students apply advanced programming techniques using Java in preparation for the AP Computer Science A exam.

Cybersecurity

SENIOR

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Cybersecurity**Suggested Electives:**

AP Calculus, AP Physics 1, AP Physics 2, AP Statistics, Introduction to Business, Digital Electronics, Robotics

Certifications:

Amazon Web Service

Computer Science Pathway





DIGITAL MEDIA & DESIGN PATHWAY

FRESHMAN

AITE Exploratory (EXP)

Students explore Biomedical, Engineering, Computer Science, and Digital Media before choosing a pathway. They gain insight into career opportunities and build a strong foundation to make informed decisions about their future studies and careers.

Art & Design Essentials (ADE)

Students explore the foundational elements and principles of visual design, developing the creative and technical skills. Through projects like logo creation, poster design, and personal branding, they gain hands-on experience in composition, color theory, typography, and visual storytelling.



SOPHOMORE

Digital Media & Design Principles (DMP)

Students build on foundational digital design skills to develop students' technical proficiency and creative problem-solving. Students engage in real-world design challenges, refine their use of industry-standard tools, and create projects across branding, video, animation, audio, and interactive design. Emphasis is placed on professional workflows, collaboration, and portfolio readiness for advanced coursework or entry-level media opportunities.

**Pathway
Transfer**



JUNIOR

Applications in Visual Communication (AVC)

Students apply advanced digital media skills to solve authentic visual communication problems, such as designing a brand identity system or creating multimedia content for a client. Students deepen their understanding of design strategy, user experience, and project workflows while developing a professional portfolio that showcases their creative and technical abilities.

Motion Graphics and Film

SENIOR

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Motion Graphics and Film**Suggested Electives:**

Drawing and Painting, Scientific Modeling and Illustration, Game Design, Business, Yearbook

Certifications:

Adobe Certified Professional in Multiple Adobe Apps (Photoshop, Illustrator, Premiere Pro, InDesign)

Digital Media Pathway



2024-25 Community Impact Award





Tango Flight - Innovation in Action

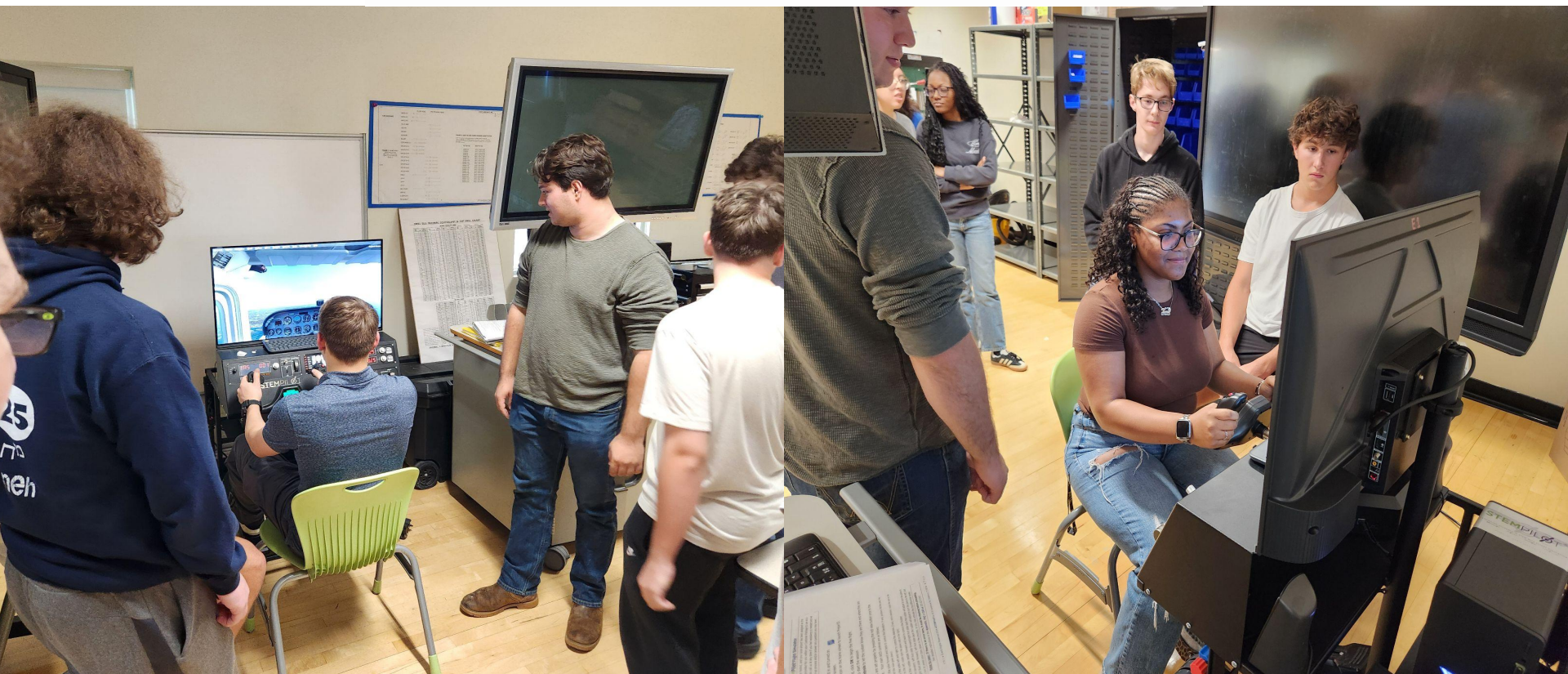
AITE is one of only a few schools nationwide with Tango Flight, where students build a real 2-seat airplane with industry mentors and complete an aerospace curriculum



TANGOFLIGHT™



TANGOFLIGHT™



Dual Enrollment Courses



Norwalk Community College



UNIVERSITY OF
BRIDGEPORT

Real-World Experiences

- Guest speakers
- Internships
- Field trips



Global Learning: The CIEE Experience

CIEE is a non-profit organization that has been promoting international education and exchange for 75 years.

AITE is the only school in CT offering the Council on International Educational Exchange Program.

- Study Abroad During the Summer
- Scholarships Are Available



Beyond the Classroom: Leadership and Engagement

- **Debate Team:** Hone research, argumentation, and public speaking skills
- **Future Business Leaders of America (FBLA):** Develop leadership, communication, entrepreneurship, and professional skills through teamwork, competition, and community engagement
- **Interact:** Develop leadership, empathy, and teamwork skills through service projects, volunteerism, and community engagement
- **Model United Nations (MUN):** Develop diplomacy, communication, and collaboration skills
- **Mayor's Youth Leadership Council (MYLC):** Build civic leadership, advocacy, and public speaking skills
- **National Honor Societies:** Lead peer tutoring programs, model good character and ethics
- **Student Government:** Represent the voice of their peers, lead organization and implementation of events, practice advocacy through engagement with administration and class advisors

AITE's Award Winning Debate Team



Future Business Leaders of America



Interact



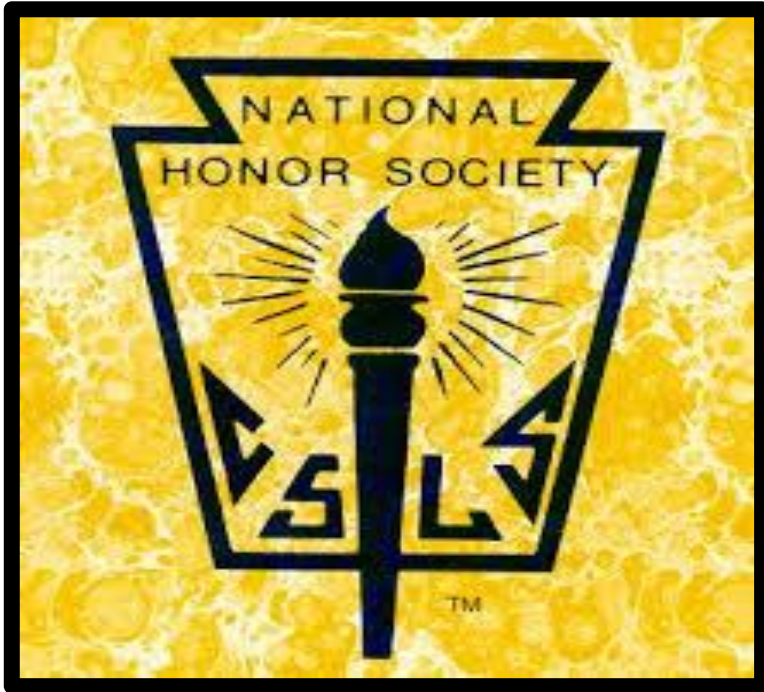
Model United Nations



Mayor's Youth Leadership Council



National Honor Society and Student Government



Clubs and Activities



March Madness



School Spirit



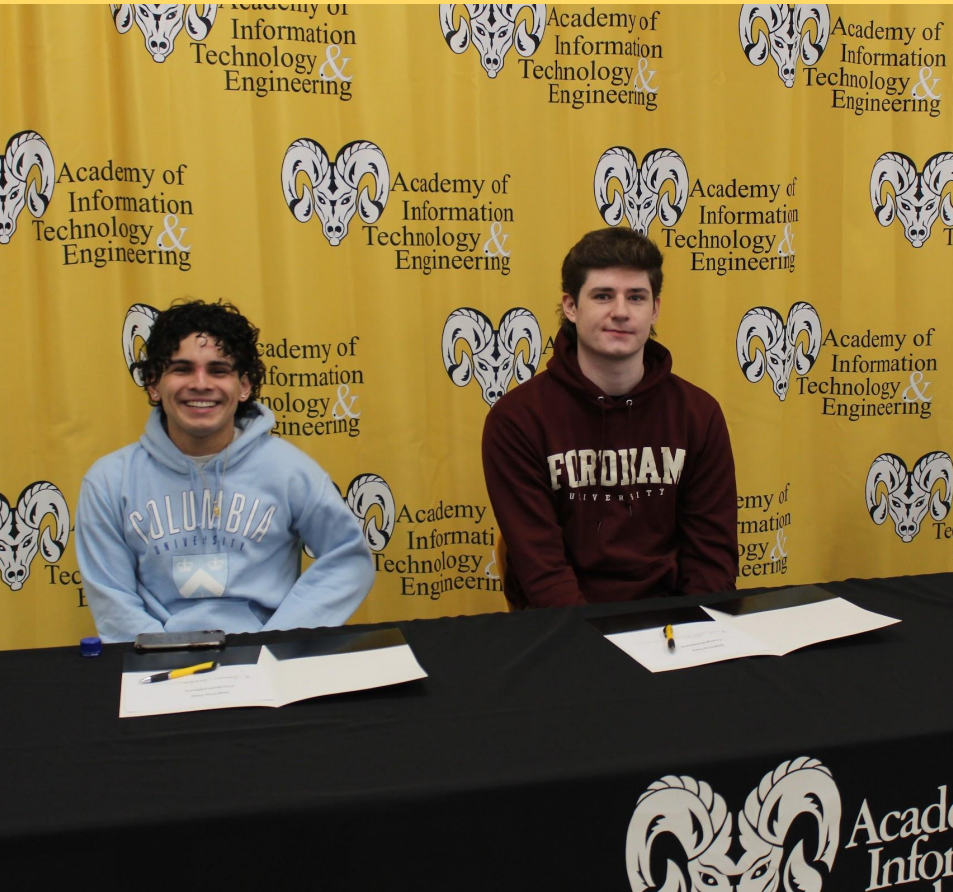
Student Athletes



Student Athletes



Student Athletes



Student Athletes



The 2026-27 SPS Magnet School Lottery Application is Open

- Applications Due: Wednesday, January 15, 2026 at 4 pm
- Lottery Drawing: Tuesday, February 18, 2026
- Lottery Acceptances Due: Tuesday, March 11, 2026

How to Apply

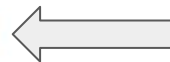
Go to the homepage of our website

www.aitestamford.org

In the center of the page you will find the link to the application.

[SPS Magnet School and Lottery Information](#)

[AITE Lottery Application](#)



What Makes AITE Special?



Academy of
Information
Technology &
Engineering



A Public College-Preparatory Interdistrict Magnet High School Serving Lower Fairfield County

What Makes AITE Special?

- PLTW Biomedical Science, Computer Science, and Engineering Pathways
- Recognized as a PLTW School of Distinction
- Highly qualified faculty, including 2 SPS Teachers of the Year and 1 PLTW National Teacher of the Year
- Tango Flight Aviation Program
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Celebrating 25 Years of Empowering Students to Shape the Future!

OPEN HOUSE SCHEDULE 2025

Saturday, November 15
9:30 am - 11:00 am

Thursday, December 11
6:00 pm - 7:30 pm

All applications are due by January 15, 2026 at 4:00 pm

All Open Houses include a presentation by AITE Administration and tour of the building

Start Your Child's Future at AITE

Where students:

Achieve: Reach their full potential through critical thinking and problem-solving

Innovate: Design, create, and apply knowledge in new ways

Transform: Turn ideas into real-world solutions and projects

Empower: Build leadership, confidence, and lifelong skills

Academy of Information Technology & Engineering



**Celebrating 25 Years
of Empowering Students to Shape the Future!**