Applied Technology High School

Engineering Technology

Health Professions

Cybersecurity

A Bergen County Technical School/ Bergen Community College

Career & Technical Education

High School Program

2025-2026

Program Descriptions & Admissions Information

Applied Technology High School, located on the Paramus Campus of Bergen Community College, provides students a unique educational experience through a blend of academic high school concentrations—Engineering Technology, Health Professions, and Cybersecurity.

Our Unique Program offers students:

•Underclassmen take college classes exclusively with other ATHS students. Courses for upperclassmen may include other college students from Bergen Community College. By taking college classes, students can earn a minimum of 30 college credits that are transferable to all four-year public colleges and universities in New Jersey. Many students will obtain a sufficient number of credits to earn an Associates Degree.

•Technical classes are taught in labs within ATHS as well as labs at Bergen Community College. Health Professions students take classes at the Health Professions Integrated Teaching Center. Students in Engineering Technology take classes in the college's Technology Center.

•Participation in the Senior Experience Internship program during students' senior year. This program is a graded internship graduation requirement. Student interns report directly to their internship one day per week during the academic year for the full business day.

•Access to the full range of sports offered by Bergen County Technical Schools. Bus transportation is provided for students to participate in sports.

Profile of an Applied Tech Student

•Students who exhibit strong interpersonal skills, a commitment to excellence, a desire to become part of a unique high-school-within-a-college, and the potential to become active contributors to our dynamic learning community.

•A motivated student who demonstrates the maturity and independence required to challenge themselves through academic and career focused dual enrollment classes with minimal parental supervision.

•A student on or close to grade level with proficient scores on on state administered assessments who demonstrates the desire to challenge her/himself through academic and career-focused dual enrollment classes.

If you are interested in attending Applied Technology High School @ Bergen Community College:

•Watch our virtual open house video, or learn about our programs by reading the materials posted on our website. Speak to your parent(s)/guardian(s) about the school and your personal high school goals.

•Make your decision. It is your education. Do you think Applied Technology High School is right for you? Review the information on our website with your parent(s)/guardian(s) to help you make an informed decision.

•Meet all application deadlines and requirements. Follow all instructions on our admissions website. Be sure to provide a personal email address, not your current school email address. We do not accept late applications.

Questions? Email us at ATHSadmissions@bergen.org

Cybersecurity

The ATHS Cybersecurity program aims to scaffold all students from beginner to expert in the cybersecurity field. Students will be introduced to concepts such as cybersecurity vocabulary, hardware and networking basics, Windows and Linux command-line administration, Python programming to code and break ciphers, with the goal of going into future college classes with a strong background and essential skills they will need to succeed. Cybersecurity students have the opportunity to earn industry-recognized certifications prior to their senior year. Dual-enrollment coursework allows students to earn advanced standing into several technical Associates programs at Bergen Community College, including the opportunity to earn an A.A.S in Cybersecurity. Students completing their Associate's Degree at BCC may transfer their credits to all four-year public college and universities in New Jersey.

Scope and Sequence

Course titles in purple represent dual enrollment classes where students earn both high school and college credits

9th Grade

CTE Course -
- Intro to Cybersecurity

Science — Biology (Bio-103)

Math —Algebra I

Social Studies —U.S. History I

Language Arts —English I

World Language —Spanish I (LAN 113)

Health & PE —
- DynamicsofHealth (WEX 101)/PE
- Body Conditioning (WEX 112)

10th Grade

CTE Courses -
- Intro to Networking (INF 160)
- PC Maintenance (INF 108)
- Intro to LINUX (INF 165)

Science — Chemistry (CHM 100)

Math —Geometry

Social Studies — U.S. History II

Language Arts —English II

World Language —Spanish II (LAN 230)

Health & PE —CPR/First Aid (WEX 159)/Self-Defense (WEX 167)

11th Grade

CTE Courses —
- Introto Python (INF 103)
- Network Security (INF 267)
- Applied Cryptology

Science — Physics

Math —AlgebraII

Social Studies —WorldHistory

Language Arts Visual & — EnglishIII

Performing Arts —
- World Music (MUS 106)

Health & PE —
- Yoga (WEX 170)
- Weight Training (WEX 116)

12th Grade

CTE Courses —
- Ethical Hacking (INF 271)
- Digital Forensics (INF-270)

Science —
- Gen Chemistry 1 (CHM 140-141)/ Physics 1 (PHY 280)

Math* —
- Pre-Calculus (MAT 160)/Statistics (MAT 150) **

Social Studies —
- Macroeconomics (ECO 101)

Language Arts —
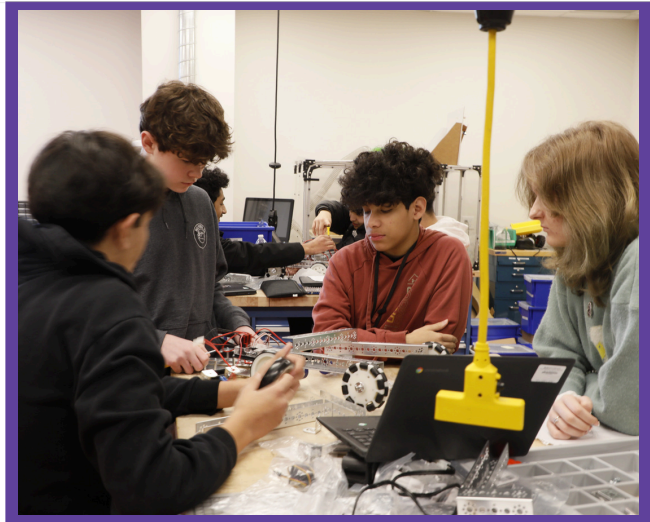- EnglishComp I (ENG 101)/English Comp II (ENG 202)

Health & PE —
- Contemporary Health Issues (WEX 185)
- Core Stability (WEX 117)/ Aquacise (WEX 104)

*Math and ELA courses are contingent upon placement test results. HS-level courses may be taken as an equivalent. Additional 12th-grade BCC electives are available. Courses in Itaics are not required for graduation.

Engineering Technology

The Engineering Technology program provides students a unique educational experience through a blend of academic high school curriculum, college classes, and hands-on technical training. Students are given the opportunity to apply math, science, and technology to hands-on projects in the fields of automation, electronics, and advanced manufacturing to pursue a career in the diverse and multi-faceted engineering technology field.

Scope and Sequence

Course titles in purple represent dual enrollment classes where students earn both high school and college credits

9th Grade

CTE Courses –
  • Engineering Design
  • Engineering Workshop
Science –Physics
Math –Algebra I
Social Studies –U.S. History I
Language Arts – English I
World Language –Mandarin I (LAN 116)
Health & PE –
  •Dynamics of Health (WEX 101)/PE
  •Body Conditioning (WEX 112)

10th Grade

CTE Courses –
  •Intro to Mechatronics
  •CAD I (DFT210)
Science – Chemistry (CHM 100)
Math – Geometry
Social Studies – U.S. History II
Language Arts –English II
World Language –Mandarin II (LAN 276)
Health & PE –
  •CPR/FirstAid (WEX 159)
  •Self-Defense (WEX 167)

11th Grade

CTE Courses –
  •Smart Machines
  •Intro to Python (INF 103)
  •Machine Tool Principles I (MFG 122)
Science – Biology (BIO 101)
Math – Algebra II
Social Studies – World History
Language Arts – EnglishII
Visual & Performing Arts —
  •World Music (MUS106)
Health & PE–
  •Yoga (WEX 170)
  •Weight Training(WEX 116)

12th Grade

CTE Courses –
  •ConceptsofIndustrial Design (MFG 206)
  •Fundamentals of Programming (CIS 165)
Math* –
  •Pre-Calculus (MAT 180)/Calculus
Social Studies–
  •Macroeconomics (ECO 101) or Microeconomics (ECO 102)
Language Arts –
  •EnglishComp I (WRT 101)/Eng Comp II(WRT 201)
Health & PE –
  •Contemporary Health Issues (WEX 185)
  •Core Stability (WEX 117))

*Math and ELA courses are contingent upon placement test results. HS-level courses may be taken as an equivalent. Additional 12th-grade BCC electives are available. Courses in Itaics are not required for graduation.

Health Professions

The mission of the Health Professions Program at ATHS is to provide preparation for multiple health careers through a core curriculum that emphasizes science, the human and organizational side of health care, and the opportunity to earn college credit and clinical experience. The goal of the program is to promote the concept of teamwork as essential to patient well-being, provide students a strong foundation in science, and address New Jersey's healthcare work force needs.

Students learn both through didactic training and hands-on clinical simulations in the classroom. The simulations are reinforced by attending BCC's Center for Simulation approximately once a week, depending on the body system being studied.

Scope and Sequence

Course titles in purple represent dual enrollment classes where students earn both high school and college credits

9th Grade

CTE Courses –
  • Medical Explorations
  • HealthcareSimulations I

Science – Biology(BIO 101)

Math – Algebra I

Social Studies – U.S. History I

Language Arts – English I

World Language – Spanish I (LAN 113)

Health & PE –
  • DynamicsofHealth (WEX 101)/PE
  • Body Conditioning (WEX 112)

10th Grade

CTE Courses –
  • MedicalTerminology (MOA 140)
  • HealthcareSimulations II

Science – Chemistry (CHM 100)

Math – Geometry

Social Studies – U.S. History II

Language Arts – English II

World Language – Spanish II (LAN 230)

Health & PE –
  • CPR/FirstAid (WEX 159)
  • Self-Defense (WEX 167)

11th Grade

CTE Courses –
  • Anatomy & Physiology I (BIO 109)
  • Healthcare Policy
  • Diversity in Healthcare

Science – Physics

Math – Algebra II

Social Studies – WorldHistory

Language Arts – EnglishIII

Visual & Performing Arts –
  • World Music (MUS 106)

Health & PE –
  • Yoga (WEX 170)
  • Weight Training(WEX 116)

12th Grade

CTE Courses –
  • Anatomy& Physiology II (BIO 209)
  • Healthcare, Ethics, & Law (HSC 102)/Healthcare Sims III

Math* –
  • StatisticsI(MAT 150)/Pre-Calculus (MAT 180)

Social Studies –
  • Macroeconomics (ECO 101) or
  • Microeconomics (ECO 102)

Language Arts –
  • EnglishComp I (WRT 101)/Eng Comp II(WRT 201)

World Language – Speech Communication (COM 100)

Health & PE –
  • Contemporary Health Issues (WEX 185)
  • Core Stability (WEX 117) or Aquacise (WEX 104)

*Math and ELA courses are contingent upon placement test results. HS-level courses may be taken as an equivalent. Additional 12th-grade BCC electives are available. Courses in Itaics are not required for graduation.

School Counseling

A successful experience in high school is crucial to a solid foundation for future success. ATHS is proud to offer students a comprehensive school counseling program in Naviance, the web-based college readiness platform used throughout our school district. This program enables us to meet the development of the social, emotional, psychological, and educational aspects of each student.

Students and parents are provided with access to Naviance/Family Connection early in freshman year. Utilization of Naviance/Family Connection, provides students the ability to complete their respective Naviance programs and be adequately prepared for college and beyond.

School Counseling through Naviance/Family Connection:

•Transition Survey •Game Plan Survey •Career Cluster Finder •Study Skills Survey •Learning Style Inventory •Enrichment Program Search •Career Interest Profiler •Student Profile •Intake Conference Worksheet •Take PLAN, PSAT, SAT, SAT Subject Tests, ACT •SuperMatch College Search •Completion of FAFSA •Scholarship Search •Common Application •Graduation Survey

Senior Experience

The Senior Experience internship is an interactive learning partnership through which students increase their knowledge and skills in a particular area of study while under the guidance of a mentor(s). Students report to their internships one day per week during their senior year.

Senior Experience Internships for SY2025-2026 include:

ABC Television – Good Morning America
AZCO Corp
Achieving New Heights
Advanced Dental
Advocare Panorama Pediatrics
Air Fleet Training Systems
Allstate Insurance
Altherm, Inc
Aphelion Orbitals Inc
Applied Computer Technologies
Ascend Home Health – Home Health Visiting Nurses
Assemblyman Calabrese
Assemblyman Robert Auth
Bergen County Board of Commissioners Office
Bergen County Courthouse
Bergen County Department of Health Services
Bergen County Public Safety Operations Center
Bergen County Department of Planning and Engineering
Bergen County Sheriff's Department
Bergen County Sheriff's Office – IT Bureau
Bergen County Superior Court in Hackensack
Bergen County Volunteer Organization
Bergen Culinary School
Bergen MakerSpace
Bergen New Bridge Medical Center
Bergen Volunteer Medical Initiative
Bergen Volunteers
Borough of Dumont, New Jersey
Boswell Engineering
Brescia & Migliaccio Women's Health
Buehler Challenger & Science Center
CNR Products
CarePoint Health
Case Medical
Century Air
Clara Maass Hospital
Coldwell Banker
Copy Shop Digital Systems
County of Bergen Division of Weights and Measures
Crestron Electronics
DOKA
ENT, Sinus, and Hearing Center – Daniel Samadi, M.D. PC
Dattner Architects
Debra Simon Center for Integrative Medicine
Dellicker Strategies
Design Display Group, INC
Dr. Spinelli D.O.
Durante Physical Therapy
Edep Academy
Evans Architects
FOOTDRX, LLP
Feldman Brothers Electrical Supply
Ferry Machine Corporation
Flex Engineering Group LLC
Flight Safety International
Garden State Helicopters
Glen Rock Pediatrics
Guzzo & Guzzo
HM Cardiology, PA
Hackensack Meridian HUMC
Hackensack Meridian Health Palisades Medical Center
Hackensack Meridian Pascack Valley Medical Center
Holy Name Medical Center
Holy Name Medical Partners Harmony Health
Hudson Premier Healthcare Partner
Hudson River Care and Counseling
Hytorc
IZ Medical
Integrated Pain Management
JAG-ONE Physical Therapy
Jade Mountain Acupuncture & Wellness Center
Jain Orthodontics
Jersey College School of Nursing
Juniper Assisted Living in Paramus
Kreiner Dental
Law Office of Louis G. DeAngelis, LLC
Lifescan Diagnostics PC
Luxury Living by Michael Hern

Main Dental Associates, LLC
Malaki Dental Group
McLaren Engineering Group
Meadowlands Chamber of Commerce
Middle Village Pharmacy
NJ Superior Court
NJIT Dept of Mechanical & Industrial Engineering
New Jersey Heart and Vein
Northern Jersey Plastic Surgery Center, LLC
Northvale Cardiologist
Novartis Pharmaceutical
Overpeck Creek Animal Hospital
Phillips Precision Metacraft
Paramount Group Inc.
Park Orthodontics
Play Learn Explore Academy
Powerarm Performance
Premier Oral Surgery Group PC
Premier Realty Group
Professional Physical Therapy
RVN Enterprises
Railroad Construction Company
Ramsey Subaru
Randazzo Dental Associates
Realty One Group Sunrise
Ridgefield Park Animal Hospital
Ridgewood Water Company
Riverside Medical Group
Roosevelt Hall / Keller Williams Valley Realty
Royal Master Grinders
Ryerson Smiles
Savia Community Counseling, LLC
Schmidt Surveying, LLC
St. Joseph's University Medical Center
Stonefield
Surgicore
Syngent
TNTMAX
Tech Depot of Saddle Brook
Tekno Products Inc.
The Department of Senior Services
The Law Office of Kate Houghton
The Rios Law Firm
The Valley Hospital Health System
TheraPhysical
Therapro LLC
Toyota of Hackensack
Transcend Orthodontics
University Reproductive Associates
Urban Associates, LLC
VaYU Shakti
Versa Products
Veterinary Emergency Group
Westchester Medical Center: Bon Secours Neurology

Clubs/Activities

Clubs and activities are an important component of our learning environment. Students have the opportunity to participate in a variety of clubs that are held after school. They must submit signed consent forms to participate in club activities, and abide by attendance guidelines.

The following clubs are open to all ATHS students:

- Debate Club
- Drama Club
- Gaming Club
- GSA
- HOSA (Health Occupations Students of America)
- Mathletes
- Model UN
- Music Club
- Project Invent
- Science Olympiad
- Student Council
- TSA (Technology Students Association)
- Women in STEM
- Yearbook

Young Women Leadership Conference 2025

Debate Club

Model UN

Project Invent

Project Invent is a nationwide organization that supports high school students to invent technologies for social good. As a student on a Project Invent team, you spend a full year taking a human-centered approach to developing a technology solution to solve a need in your community.

Our Project Invent team has collaborated with varied community partners over the prior years. These include Bleshman Regional Day School, The Leary Fund to benefit firefighters, and The Hackensack RiverKeeper.

Athletics

Athletics at Bergen County Technical Schools

At Bergen County Technical Schools, athletics are more than just a game, they're an essential part of the high school experience. Through interscholastic sports, our student-athletes build lifelong skills such as perseverance, leadership, teamwork, and communication, all while staying active and healthy.

We believe that participating in athletics promotes a strong sense of self, encourages school spirit, and helps students form lasting connections with their peers and community. Whether on the field, court, mat, or track, our athletes develop pride in themselves and in representing Bergen Tech.

Our goal is to offer meaningful and inclusive athletic experiences to as many students as possible. With high-quality equipment, top-tier coaching, and access to facilities, we are dedicated to supporting our student-athletes every step of the way.

Athletics, and all extracurricular activities, extend the learning day and help shape the culture of our schools. These programs bring students together, create a sense of belonging, and foster a positive school climate across all campuses.

Our teams compete in the Big North Conference and NJTAC and we proudly uphold the standards of sportsmanship and integrity set by the NJSIAA and Big North Conference.

Bergen County Technical Schools is made up of five campuses: Bergen County Academies (BCA), Teterboro, Paramus, Applied Tech, and Career Innovations. No matter which campus they attend, all students have the chance to represent the Bergen Tech Knights. This shared identity builds unity and camaraderie across the district and creates a unique sense of pride that goes beyond individual campuses.

As coaches and administrators, we take seriously the trust families place in us. We are committed to ensuring that every student-athlete feels supported, challenged, and inspired, on and off the field.

Sports Offered

Fall
- Football—Varsity, Sub-Varsity
- Boys/Girls Soccer—Varsity, Junior Varsity, and Freshman
- Boys/Girls Cross Country—Varsity
- Girls Tennis—Varsity and Junior Varsity
- Girls Volleyball—Varsity, Junior Varsity and Freshman
- Football Cheerleading

Winter
- Boys Basketball—Varsity, Junior Varsity, and Freshman
- Girls Basketball—Varsity and Junior Varsity
- Boys/Girls Bowling
- Boys/Girls Fencing
- Boys/Girls Indoor Track
- Competitive Cheerleading (tryouts held in the summer)

Spring
- Baseball—Varsity, Junior Varsity, and Freshman
- Softball—Varsity, Junior Varsity, and Freshman
- Boys/Girls Golf
- Girls Lacrosse—Varsity and Junior Varsity
- Boys Tennis—Varsity and Junior Varsity
- Boys/Girls Track & Field
- Boys Volleyball —Varsity and Junior Varsity

Accolades 2024-2025 School Year
- GIRLS GOLF -BIG NORTH WEST DIVISION CHAMPIONS
- GIRLS VOLLEYBALL - BIG NORTH LIBERTY DIVISION CO-CHAMPIONS
- GIRLS SOCCER - BIG NORTH LIBERTY DIVISION CHAMPIONS
- SOFTBALL - BIG NORTH LIBERTY DIVISION - SPORTSMANSHIP AWARD
- COMPETITION CHEER - NJ STATE CHAMPIONS
- GIRLS BOWLING - BIG NORTH LIBERTY DIVISION CHAMPIONS
- BOYS BOWLING - NORTH 2, GROUP 4 STATE SECTIONAL CHAMPIONS
- BOYS FENCING - BPFL PATRIOT DIVISION CHAMPIONS
- GIRLS TENNIS - BIG NORTH LIBERTY DIVISION CHAMPIONS
- BOYS TENNIS - BIG NORTH LIBERTY DIVISION CHAMPIONS

College Acceptances - Class of 2025

Adelphi University
Albany College of Pharmacy & Health Sciences
American University
Baruch College - School of Public Affairs
Baylor University
Bentley University
Bergen Community College
Berklee College of Music
Binghamton University
Boston College
Boston University
Cal Poly
Caldwell University
Case Western University
College of Charleston
Colorado School of Mines
Drexel University
East Stroudsburg University of Pennsylvania
Embry Riddle Aeronautical University - Daytona Beach
Embry Riddle Aeronautical University - Prescott
Fairleigh Dickinson University
Felician University
Florida Atlantic University
Florida Tech
Fordham University
Gettysburg College
High Point University
Hofstra University
Howard University
Illinois Institute of Technology
Iona University
Iowa State University
James Madison University
Kean University
Lafayette College
Lehigh University
Liberty University
Loyola University Maryland
Manhattan University
Marist University

Mercy University
Michigan State University
Monmouth University
Montclair State University
Moravian University
New Jersey City University
New Jersey Institute of Technology
New York Institute of Technology
Northeastern University
Norwich University
Nova Southeastern University
Oregon State University
Pace University
Pennsylvania College of Technology
Pennsylvania State University
Portland State University
Providence College
Quinnipiac University
Ramapo College of New Jersey
Regent University
Rensselaer Polytechnic Institute
Rochester Institute of Technology
Rose-Hulman Institute of Technology
Rowan University
Rutgers University - New Brunswick
Rutgers University - Newark
SUNY Buffalo State
SUNY College of Agriculture & Technology at Coblesill
SUNY College of Technology at Canton
SUNY Cortland
SUNY Polytechnic Institute
SUNY at Purchase College
Saint Joseph's University
Saint Peter's University
San Francisco Conservatory of Music
Seton Hall University
Southern Methodist University
St. John's University - New York
St. Thomas Aquinas College
Stevens Institute of Technology

Stevenson University
Stockton University
Susquehanna University
Syracuse University
Temple University
The College of New Jersey
The George Washington University
The University of Tampa
Thomas Jefferson University
Union College
University of Alabama in Huntsville
University of Arizona
University of California - Davis
University of Cincinnati
University of Connecticut
University of Delaware
University of Florida
University of Hartford
University of Limerick
University of Massachusetts - Amherst
University of Massachusetts - Boston
University of Massachusetts - Dartmouth
University of Massachusetts - Lowell
University of Michigan - Ann Arbor
University of New Haven
University of North Carolina at Chapel Hill
University of Pittsburgh
University of Portland
University of Rhode Island
University of Rochester
University of Scranton
Vanderbilt University
Villanova University
Virginia Commonwealth University
Virginia Tech
Wentworth Institute of Technology
Wheaton College
Widener University
William Paterson University
Worcester Polytechnic Institute

Frequently Asked Questions

What is the length of the school day and school year?
The school is in session from 7:40a.m. until 2:31p.m. for 180 days per year.

Is there any cost to the parents for sending students to Applied Tech?
Bergen Tech is a free public school of choice for residents of Bergen County.

Do parents arrange and pay for transportation?
Transportation to AppliedTech is arranged by the students' home district at no cost to the parents.

Can students transfer to this school after the ninth grade?
No. The program structure is such that students enter Applied Tech with a selected major and prescribed courses.

Are services provided to students with disabilities?
Yes. Services are provided according to the child's IEP or 504 Plan.

Is there an admissions test for the school?
An entrance exam is not required for consideration to Applied Technology High School. Qualified students who meet the admissions criteria are offered interviews. Students are required to take a placement test once they've been accepted.

The Bergen County Technical School District is an educational model that prepares students to work, live, and lead in a global community.

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