PCTI STEM ACADEMY

45 Reinhardt Road, Wayne, NJ 07470 | 973-790-6000 | stem.pctvs.org

CEEB CODE: 310089

Joseph W. Sabbath
Superintendant

Joaquim W. Johnson
Principal

OUR COMMUNITY

The Passaic County Technical Vocational High School District is a diverse career and technical education (CTE) high school community of two distinct high schools located on a scenic 55-acre campus in Wayne, New Jersey. As the largest high school district in the state, it serves over 4,800 students from sixteen sending municipalities throughout Passaic County. In addition to rigorous academics and a comprehensive high school curriculum, our advanced CTE programs are designed to meet current industry trends and the needs of the global market. Each year, the district receives over 4,000 applications for the opportunity to enter the freshmen class of 1,200 students, who are selected through a highly competitive application and admissions process.

AP Subject	2025 STEM Academy AP Success Rate	2025 Global AP Success Rate
African American Studies	100	70
Biology	100	71
Calculus AB	84	64
Calculus BC	100	79
Chemistry	100	78
Computer Science A	61	67
Computer Science Principles	59	63
English Language and Composition	98	74
English Literature and Composition	95	74
Environmental Science	95	69
Physics C: Mechanics	100	72
Precalculus	100	81
Psychology	86	72
Research	100	89
Seminar	98	86
Spanish Language and Culture	100	85
Statistics	87	60
United States Government and Politics	94	72
United States History	100	73

SCHOOL COUNSELING DEPARTMENT

School Counseling Office
(973) 790-6000 ext. 5024

School Counselors

OUR SCHOOL

The PCTI STEM Academy is a college preparatory school for grades 9-12 with over 1,000 students representing the diverse population of Passaic County, New Jersey. Its 92 expert faculty offer more than 50 courses focused on three STEM pathways: Biomedical and Life Sciences, Computer Science, and Engineering. Ranked the #1 school in Passaic County in 2024, the academy provides advanced placement, honors courses, and extensive academic electives. Students engage in hands-on learning in state-of-the-art labs and classrooms, and complete a senior research capstone, which may be showcased at the annual STEM Expo. As one of 2,000 AP Capstone schools nationwide, the academy emphasizes academic excellence. Students also participate in a variety of co-curricular activities, including service, business, arts, and competitive athletics.

PCTI STEM CLASS OF 2025	
GPA RANGE	% STUDENTS
4.50+	0.4
4.00-4.49	25.4
3.50-3.99	34.4
3.00-3.49	19.9
0-2.99	19.9

2025 BY THE NUMBERS

256 GRADUATING CLASS SIZE

88% % ATTENDING 4-YEAR COLLEGES

12% % ATTENDING 2-YEAR COLLEGES, WORKFORCE, OR SKILLED TRADES

20.4 AVERAGE CLASS SIZE

18 AP COURSES OFFERED

33 VARSITY SPORTS

199 AP SCHOLARS

3.8 AVERAGE AP SCORE

11 AP CAPSTONE DIPLOMAS

STANDARDIZED TEST SCORES

SAT TEST RESULTS	PCTI STEM	STATE OF NJ
READING	592	530
MATH	604	519

PSAT TEST RESULTS	PCTI STEM	STATE OF NJ
READING & WRITING	555	459
MATH	562	454

COURSEWORK

ENGLISH
AP ENGLISH LANGUAGE & COMPOSITION
AP LITERATURE & COMPOSITION
CREATIVE WRITING
ENGLISH 1
ENGLISH 1 (H)
ENGLISH 2
ENGLISH 2 (H)
ENGLISH 3
ENGLISH 3 (H)
ENGLISH 4
ENGLISH 4 (H)

MATHEMATICS
ALGEBRA 1
ALGEBRA 1 (H)
ALGEBRA 2
ALGEBRA 2 (H)
ALGEBRA 2/ TRIG (H)
AP CALCULUS A/B
AP CALCULUS B/C
AP PRE-CALCULUS
AP STATISTICS
CALCULUS (H)
CALCULUS 3/ MULTIVARIABLE (H)
DISCRETE MATH
GEOMETRY
GEOMETRY (H)
MATHEMATICAL MODELING 1
PRE-CALCULUS

SCIENCE
ANATOMY & PHYSIOLOGY
AP BIOLOGY
AP BIOLOGY LAB
AP CHEMISTRY
AP CHEMISTRY LAB
AP PHYSICS C: MECHANICS
AP ENVIRONMENTAL SCIENCE
BIOLOGY
BIOLOGY (H)
CHEMISTRY
CHEMISTRY (H)
ENVIRONMENTAL SCIENCE
FORENSICS 2
PHYSICS
PHYSICS 1 (H)
PHYSICS 2 (H)
SCIENCE ETHICS

SOCIAL STUDIES
AFRICAN AMERICAN STUDIES
AP AFRICAN AMERICAN STUDIES
AP GOVERNMENT
AP PSYCHOLOGY
AP U.S. HISTORY
LATIN AMERICAN STUDIES
PSYCHOLOGY
THE HOLOCAUST & GENOCIDE STUDIES
U.S. HISTORY 1
U.S. HISTORY 1 (H)
U.S. HISTORY 2
U.S. HISTORY 2 (H)
WORLD HISTORY
WORLD HISTORY (H)

WORLD LANGUAGE
AP SPANISH
CHINESE 1
CHINESE 2
CHINESE 3
CHINESE 4
SPANISH 1
SPANISH 2
SPANISH COMP/CONV. A (H)

PHYSICAL EDUCATION
HEALTH 1
HEALTH 2/DRIVER ED
HEALTH 3
HEALTH 4
PHYS. ED 1
PHYS. ED 2
PHYS. ED 3
PHYS. ED 4
ROTC 1
ROTC 2
ROTC 3
ROTC 4

CAREER AND TECHNICAL EDUCATION
AP COMPUTER SCIENCE PRINCIPLES
Biomed 1: PRINCIPLES OF BIOMEDICAL SCIENCE
Biomed 2: HUMAN BODY SYSTEMS
Biomed 3: MEDICAL INTERVENTIONS
Biomed 4: BIOMEDICAL INNOVATIONS
BIOMEDICAL 4 - CAPSTONE
AR/VR CAPSTONE
CEA CAPSTONE
CIM CAPSTONE
Comp Sci 4: CYBERSECURITY
Comp Sci 4: INTRO TO 3D PROGRAM.:AR/VR
Comp Sci 4: INTRO TO DATA SCI. & A.I
COMPUTER SCIENCE STC
CS 1: COMPUTER SCIENCE ESSENTIALS
CS 2: COMPUTER SCIENCE PRINCIPLES AP
CS 3: AP COMPUTER SCIENCE A
CYBER CAPSTONE
DE CAPSTONE
DS & AI CAPSTONE
Eng 1: ENGINEERING ESSENTIALS
Eng 2: INTRO TO ENGINEERING DESIGN
Eng 3: PRINCIPLES OF ENGINEERING
Eng 4: CIVIL ENGINEERING & ARCHITECTURE
Eng 4: COMP. INTEGRATED MANUFACTURING
Eng 4: DIGITAL ELECTRONICS
ENGINEERING STC

ELECTIVES
AP RESEARCH
AP SEMINAR
FRESHMEN SEMINAR
INTRODUCTION TO CODING
INVENTIONS & INNOVATIONS
MULTIMEDIA/ CAD
JOURNALISM
PUBLIC SPEAKING
FINANCIAL LITERACY

CLUB OFFERINGS

Astronomy Club
Book Club
Chess Club
Choir
Christian Student Association (CSA)
Color Guard
Concert Band
Consumer Bowl
Dance Ensemble
E-Sports
End Racism and Sexism Everywhere (ERASE)
Engineering Club
Environmental Science Club
Future Business Leaders of America (FBLA)
Future Educators Association (FEA)
Gifted & Talented Club
Hindu Student Association (HSA)
International Thespian Society
Jazz Band
Leaders Emerging Among Peers (LEAP)
Lindsey Meyer Teen Institute (LMTI)
Marching Band
Muslim Student Association (MSA)
National Dance Honor Society
National History Club
National Honor Society for Dance Arts
Health Occupations Students of America (HOSA)
PRIDE Club
Performing Arts/Directors
Reserve Officer's Training Corps (ROTC)
Rho Kappa National Social Studies Honor Society
Class of 2026 (Senior)
Class of 2027 (Junior)
Class of 2028 (Sophomore)
Class of 2029 (Freshmen)
National Honor Society
World Language Honor Society
Sign Language Club
SkillsUSA
Speech and Debate Club
Student Council / Interact Club
Video Production Club
Yearbook

DUAL ENROLLMENT OPPORTUNITIES

PCTI STEM COURSE NAME	INSTITUTION
AP CALCULUS A/B	Passaic County Community College
AP CALCULUS A/B	Passaic County Community College
AP CALCULUS B/C	Passaic County Community College
AP ENGLISH LANG/COMP	Passaic County Community College
AP ENGLISH LANG/COMP	Seton Hall University
AP ENVIRONMENTAL SCIENCE	Passaic County Community College
AP GOVERNMENT	Seton Hall University
AP LITERATURE/COMP	Passaic County Community College
AP LITERATURE/COMP	Seton Hall University
AP PRE-CALCULUS	Passaic County Community College
AP PSYCHOLOGY	Passaic County Community College
AP PSYCHOLOGY	Seton Hall University
AP SPANISH	Passaic County Community College
AP SPANISH	Seton Hall University
AP U.S. HISTORY	Seton Hall University
Biomed 1: PRINCIPLES OF BIOMEDICAL SCI.	Rochester Institute of Technology
Biomed 1: PRINCIPLES OF BIOMEDICAL SCI.	William Paterson University of New Jersey
Biomed 2: HUMAN BODY SYSTEMS	Rochester Institute of Technology
Biomed 2: HUMAN BODY SYSTEMS	William Paterson University of New Jersey
Biomed 3: MEDICAL INTERVENTIONS	Rochester Institute of Technology
Biomed 4: BIOMEDICAL INNOVATIONS	William Paterson University of New Jersey
CALCULUS (H)	Passaic County Community College
CALCULUS (H)	Seton Hall University
CHEMISTRY (H)	Seton Hall University
CHEMISTRY (H)	Seton Hall University
CS 1: COMPUTER SCIENCE ESSENTIALS	Passaic County Community College
CS 2: COMPUTER SCIENCE PRINCIPLES AP	Passaic County Community College
CS 2: COMPUTER SCIENCE PRINCIPLES AP	Passaic County Community College
CS 2: COMPUTER SCIENCE PRINCIPLES AP	William Paterson University of New Jersey
CS 2: COMPUTER SCIENCE PRINCIPLES AP	William Paterson University of New Jersey
CS 3: AP COMPUTER SCIENCE A	Passaic County Community College
Eng 1: ENGINEERING ESSENTIALS	Rochester Institute of Technology
Eng 2: INTRO TO ENGINEERING DESIGN	Rochester Institute of Technology
Eng 3: PRINCIPLES OF ENGINEERING	Rochester Institute of Technology
Eng 4: CIVIL ENGINEERING & ARCHITECTURE	Rochester Institute of Technology
Eng 4: COMP. INTEGRATED MANUFACTURING	Rochester Institute of Technology
Eng 4: DIGITAL ELECTRONICS	Rochester Institute of Technology
ENGLISH 4 (H)	Seton Hall University
LATIN AMERICAN STUDIES	Seton Hall University
PHYSICS 1 (H)	Seton Hall University
PHYSICS 1 (H)	Seton Hall University
PHYSICS 1 (H) DUAL ENROLLMENT	Seton Hall University
PHYSICS 2 (H)	Seton Hall University
PHYSICS 2 (H)	Seton Hall University
SPANISH 2	Seton Hall University
SPANISH 3	Seton Hall University
SPANISH COMP/CONV (H)	Seton Hall University
THE HOLOCAUST AND GENOCIDE STUDIES	Kean University
US HISTORY 1 (H)	Seton Hall University
US HISTORY 2 (H)	Seton Hall University

CLASS OF 2025 COLLEGE MATRICULATION

Arizona State University
Boston University
Caldwell University
Coastal Carolina
Cornell University*
Elizabethtown College
Fairleigh Dickinson University
Fairleigh Dickinson University Metropolitan Campus
Fashion Institute of Technology
Felician University
Franklin & Marshall College
Georgia Southern
Grand Canyon University
HZ University of Applied Sciences
Harvard University*
Howard University
Johns Hopkins*
Kean University
Lancaster Bible College
Lehigh University
Marist University
Massachusetts Institute of Technology*
Monmouth University
Montclair State University
Morgan State University
NYU Shanghai
New Jersey Institute of Technology
New York University
North Carolina State University
Northeastern University*
Olin College of Engineering
Passaic County Community College
Penn State University
Princeton University*
Ramapo College
Rensselaer Polytechnic Institute
Ringling College of Art and Design
Rochester Institute of Technology
Rowan University
Rutgers – New Brunswick
Rutgers – Newark
SUNY Binghamton
SUNY Colleges
Saint Elizabeth University
San Diego State University
Seton Hall University
Steven's Institute of Technology
Stockton University
Stonybrook University
Syracuse University
Tec de Monterrey
The College of New Jersey
The University of Pittsburgh
The University of Scranton
The University of Tampa (Spring 2026)
Towson University
UTSA
University Of California, San Diego
University of Buffalo
University of Florida
University of Massachusetts Amherst
University of Massachusetts Lowell
University of Miami
University of Michigan
University of New Haven
University of Pittsburgh
University of Scranton
University of South Carolina Beaufort
University of South Florida
University of Vermont
Virginia Tech
Wake Forest University
West Point Military Academy
Wilkes University
William Paterson University

** Less than 10% acceptance rate.*