



DIANA C. LOBOSCO STEM ACADEMY

2023-2024 HIGH SCHOOL PROFILE



Awards and Achievements

The following highlights a number of recent DCL STEM achievements:

- An athletic powerhouse, PCTVS has won nineteen-state championships and achieved many other legendary accomplishments, which include our Football State Championship, Wrestling State Championship, Boys Swimming, Winter Cheerleading, Co-ed Varsity State Championship and many other County and Big North Conference Liberty Division Championships!
- DCL STEM students have contributed to the success of our winning teams in Football, Soccer, Volleyball, and Wrestling.
- Many of the DCL STEM students of the 2023 graduating class received local, state, and national honors for superior academic, career, and athletic achievements.
- Students of DCL STEM and PCTI were selected to compete in the Bioethics in Diversity STEM debate challenge held by the global medical technology company, Becton Dickinson.
- STEM student received the NJ Governor STEM scholar award. A prestigious distinction in which they were 1 out of 130 chosen from students grades 10 to doctoral statewide.
- Each year STEM students organize and design a spectacular annual STEM Expo that follows International Science & Engineering Fair (ISF) guidelines.
- STEM educator chosen as a National Constitution fellow, 1 of 23 nationwide.
- DCL STEM Academy was approved to be an APCapstone institution. Students will complete an AP Seminar, AP Research plus four additional AP classes to receive this designation. We are one of 2,000 schools nationwide to receive this status.

The School

The Diana C. Lobosco STEM Academy is part of the Passaic County Technical Vocational Schools (PCTVS), a national award winning, comprehensive career and technical high school district serving over 4,500 students. Located on a 55+ acre campus in Wayne, NJ, the DCL STEM Academy accepts students from all municipalities throughout Passaic County. Over 66 faculty members deliver the curriculum of 50+ courses and three focused integrated STEM career areas; **Biomedical and Life Sciences, Computer Science, or Engineering.**

A student can:

- Eventually earn 30+ college credits in high school
- Gain experience in multiple STEM careers
- Join one of DCL STEM's 3 popular programs of study
- Take part in dozens of community service projects
- Enjoy PCTVS's exciting athletic program. Through more than two dozen sports, young adults learn the true value of sportsmanship and teamwork
- Compete in academic and vocational forums for state and national honors
- Benefit through the PCTVS "It Starts with One," "Like No Place Else," "Can't Stop the Feeling," "We Are", "PCT & I", "Imagine", "Ready. Set. Go!" and "Level Up!" campaigns

MISSION STATEMENT

"We are a diverse, progressive learning community that promotes educational excellence by challenging our students to become knowledgeable, productive and socially conscious members of a global society through quality educational programs delivered by a highly skilled and dedicated staff in a nurturing environment."

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CEED CODE: 310089

Graduation Requirements

In order to qualify for a DCL STEM Academy diploma, a student must earn a total of 167.5 credits which include the following:

Language Arts	20	credits
Math (Algebra 1, Geometry, Algebra 2)	15	credits
Social Studies	15	credits
Physical Education	15	credits
Health Education	5	credits
World Language	5	credits
Science	15	credits
Electives	15	credits
Financial Literacy	2.5	credits
Visual and Performing Arts	5	credits
CTE Program/Career Exploration	55	credits

*Each student is required to complete four years of Technical/Vocational training, of which 17.5 credits must be successfully earned in grade 12. All students must participate in a senior research capstone project.

Career and Technical Education Programs

Students can apply to:

Academy of Biomedical and Life Sciences
Academy of Computer Science
Academy of Engineering

Post-Secondary Placement

• 4yr/2yr College	100%
• Employment	---
• Career Ed Schools	---
• Military	---

Grading System

Grade	Numeric	GPA
A+	98-100	4.2
A	92-97	4.0
A-	90-91	3.8
B+	88-89	3.5
B	82-87	3.0
B-	80-81	2.8
C+	78-79	2.5
C	72-77	2.0
C-	70-71	1.8
D+	68-69	1.5
D	65-67	1.0
F	0-64	0.0

Code

I = Incomplete
M = Medical Excuse
NC = No Credit
E = Excellent
S = Satisfactory
N = Needs Improvement
U = Unsatisfactory

Principal's Honor Roll

A or B in all courses & minimum of 3.8 GPA

Honor Roll

A or B in all courses



School Counseling Department

The DCL STEM Academy School Counseling Department has three full-time, on-site school counselors that are assigned to students by their chosen vocational areas. The department also has one dedicated admissions counselor and a student assistant coordinator.

Vocational Area

Academy of Biomedical and Life Sciences

Academy of Computer Science

Academy of Engineering

Admissions

Student Assistance Coordinator

Counselor

Laura Bania

Lauretta Cregar

David Ingo

Dr. Ines Drummond

Jenifer Presing



Extracurricular Programs

There are over 50 athletic and co-curricular programs offered to students as part of PCTVS. The high school participates in the Big North Conference and has won state, county, and league championships in numerous sports from football to basketball, volleyball to track and wrestling.

- Among the 4,500 students on campus, most participate in one or more of 42 student organizations including: Marching, Concert and Jazz Bands, LEAP (Leaders Emerging Among Peers), Gifted/Talented, as well as service clubs in Business, Finance, and Health.
- Student organizations strengthen the qualities of community & civic responsibility, enhance special interests and inspire school unity and spirit! National, state and local recognition for extraordinary patriotic and extensive community service.
- Many of our Biomedical and Life Sciences students are involved in HOSA (Health Occupations Student Organization). HOSA develops leadership and technical skill competencies through a program of motivation, awareness, community service, which is an integral part of the Biomedical and Life Sciences program.
- Our Computer Science and Engineering students are involved in STEM based student organizations such as; Engineering Club, Robotics Club, Society of Hispanic Professional Engineers (SHPE), Society of Black Engineers(SBE). These organizations promote leadership and camaraderie. Students are involved in collaborative experiences/challenges as well as gaining the opportunity to further their career awareness via guest speakers and lectures.



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Awards and Achievements

- Students have attended the National Youth Leadership Forum: Medicine in Boston
- Many STEM students are teaching assistants in our Fall, Spring and Summer STEM Program for 7th and 8th graders interested in STEM. They teach students how to collaborate and how to embrace making mistakes. They assist with teaching about the engineering design process, how to code, and the Scientific method.
- STEM Biomedical Students represented PCTVS in the HOSA NJ Regionals.
- Diana C. Lobosco STEM Academy students secured third place in a Shark Tank-style competition at the Life Science Diversity Conference. Their innovative project, "No-Plas," utilizes ideonella sakaiensis enzymes to accelerate plastic bottle decomposition in landfills. The team presented two product versions: a mist for garbage bags and a disposable pad, both leveraging bacterium to break down polyethylene.

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