



**COLLEGE READY.
CAREER READY.
LIFE READY.**

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Edison Academy Magnet School Profile 2023-2024

Mission Statement and Focus: The mission of the Edison Academy Magnet School is to offer a rigorous, comprehensive curriculum that provides the opportunity to develop the skills and knowledge that are prerequisites for success in engineering.

The Edison Academy Magnet School is a career academy that offers a highly focused four-year program in Civil/Mechanical Engineering (CMET) or Electronic/Computer Engineering (ECET). The curriculum is comprehensive, emphasizing the interrelatedness among science, mathematics, technology, and the humanities, and is designed to challenge students to think globally. All academic courses are taught at the Honors or AP level.

Community and History: The school is one of two career academies and one of five campuses offering a specialized career and technical education within the Middlesex County Magnet School district. The building is on the campus of Middlesex College and students have the opportunity to take both college and dual enrollment courses. Edison Academy students also have the option to pursue a pathway towards an Associate's degree in Mathematics from Middlesex College.

The school opened in 2000, and the Class of 2023 was the 20th graduating class. Eighth-grade students who live in Middlesex County are eligible to apply. Less than 10% of applicants are accepted.

Honors:

- US News & World Report as one of "America's Best High Schools" since 2008
- US News & World Report Gold Medal since 2013
- US News & World Report ranked one of the top 3 high schools in NJ since 2019
- Blue Ribbon School of Excellence by the United States Department of Education, 2013

Classes

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
Exploratory Engineering	MCET/ECET 10	MCET/ECET 11	MCET/ECET 12
MCET/ECET 9	AP English Language	English 11 H	AP English Literature
AP Biology	AP Chemistry	AP Physics 1	AP Env Sci/AP Physics C
Algebra 2 H	Precalculus H	AP Calculus BC	Calculus III H
World History H	US History 1 H	AP US History 2	Electives* (2)
Spanish 1 or 2 H	Spanish 2 or 3 H	Elective*	Technical Writing/Sr Seminar
Health/PE 9	Health/PE 10	Health/PE 11	Health/PE 12

*Electives: **AP Spanish**, **AP Statistics**, Public Speaking, Creative Writing, Linear Algebra, Discrete Math, CS Python Fundamentals, AP Computer Science A, Introduction to Quantum Computing, Introduction to Machine Learning

Engineering Curriculum: The school is a career academy with each student majoring in either Civil and Mechanical Engineering Technology (CMET) or Electronic and Computer Engineering Technology (ECET) after exploring both majors during their first semester.

Engineering classes focus on the development of problem solving skills. Students learn and apply the engineering design process in their respective disciplines and course material is often at the college level. Students utilize technologies relevant to their discipline, including SolidWorks® in CMET and Java and AWS in ECET. The school has multiple 3-D printers available for students to fabricate components designed using SolidWorks®.

Project-based learning and teamwork are emphasized. The Engineering program culminates in the senior year Capstone Project. Students work in teams and select, in consultation with the instructor, an engineering project that solves a real-world problem. Each team designs a product from conception to realization and presents it to students, staff, and guests at our Senior Showcase at the end of the year.

Students also complete a 10-day workplace mentorship/shadowing experience outside of school. The purpose of the Senior Mentorship program is to complement the technical skills learned in school with the soft skills learned in a professional work environment. Students have the opportunity to apply valuable skills learned in school including research, problem solving, organization, and public speaking.

AP Exams

Year	2023	2022	2021
Number of Exams	471	378	358
Average Score	4.4	4.1	4.1
% of Total AP Students with 3+	97%	92%	92%

Grading

A+ 98-100	B+ 86-89	C+ 76-79
A 92-97	B 82-85	C 72-75
A- 90-91	B- 80-81	C- 70-71
D 65-69	F Below 65	
Minimum Grade 50		

SAT/PSAT Mean Scores & NMSQT
(Data for the Class of 2023)

ERW
738

Math
759

PSAT
1435

Commended
30

Semifinalists
6

Finalists
5

Colleges Attended by the Class of 2023 (43 students) - 100% College Attendance

Carnegie Mellon University	Cornell University	UPenn
Georgia Institute of Technology	Indiana University	Rutgers University
Drexel University	NJIT	Purdue University
Duke University	Rice University	UIUC
Johns Hopkins University	Olin College of Engineering	University of Maryland
Cornell University	Princeton University	University of Michigan
Northwestern University	Rensselaer Polytechnic Institute	