

ACADEMIES @ ENGLEWOOD

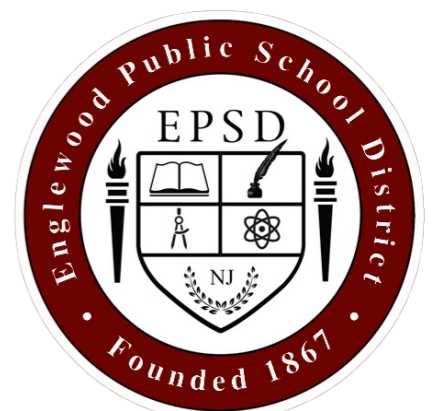
● EXPLORE THE DMHS SCHOOL CHOICE PROGRAM ●



PURSUE YOUR PASSION!

BIOMEDICINE
BUSINESS & FINANCE
LAW & PUBLIC SAFETY
INFORMATION SYSTEMS
PRE-ENGINEERING

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Students enrolled in the Academies @ Englewood program within Dwight Morrow High School have the privilege of taking part in a distinctive high school experience, one that gives students the freedom to explore their interests while meeting the academic rigor of college. Our five academies, BioMedicine, Finance, Law & Public Safety, Information Systems, and Pre-Engineering, allow students to participate in project-based learning, with access to equipment and facilities not typically found in a high school setting. Students leave this program with a fine academic background and an invaluable experience in their field of interest. It is truly a privilege to be an Academy student.

40+

Clubs & Student Organizations



15+

Advanced Placement (AP) Courses

100%

Student Enrollment in Four-Year Colleges/Universities

5

Specialized Academic Magnet Programs

20+

Years of Providing High-Achieving Students with Academically Rigorous Courses



72+ Towns Represented



A DAY IN THE LIFE OF A STUDENT

The school day runs from 8:00 am to 2:50 pm. There are various clubs and sport teams students can be a part of!

Start Time	End Time		A Day	B Day	C Day	D Day
8:00	9:01	61 Minutes	1	1	1	2
9:05	10:02	57 Minutes	2	2	3	3
10:06	11:03	57 Minutes	3	4	4	4
11:07	11:47	40 Minutes	Lunch 1	Lunch 1	Lunch 1	Lunch 1
11:51	12:48	57 Minutes	5	5	5	6
11:07	12:04	57 Minutes	5	5	5	6
12:08	12:48	40 Minutes	Lunch 2	Lunch 2	Lunch 2	Lunch 2
12:52	1:49	57 Minutes	6	6	7	7
1:53	2:50	57 Minutes	7	8	8	8

*Sample of Student Schedule

CLUBS AND ORGANIZATIONS

- Student Council
- HOSA (Future Health Professionals)
- Black Student Union
- The Maroon Tribune
- Model UN
- Mock Trial
- TSA (technology Student Association)
- UNICEF
- American Red Cross
- Page Turners
- FBLA (Future Business Leaders of America)
- DECA
- Prosthetics for Change
- Diversity Club
- National Honors Society



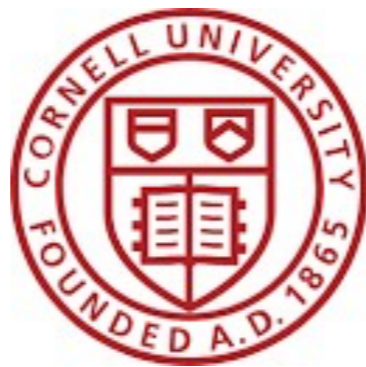
COLLEGE & CAREER PREPARATION



The Academies curriculum places a strong emphasis on college and career preparation. Students take many advanced classes at the college level by graduation and far-exceed the New Jersey graduation requirements. Students excel in college and beyond because of the many educational and career-enhancement opportunities offered at the school. Distinctive aspects of the student experience, such as the Senior Experience, Academy-Specific Courses, and access to sophisticated technologies, help to immerse students in various fields of interest.

College Acceptances of Academies at Englewood Students

Yale



Cornell University

COLUMBIA
UNIVERSITY



HARVARD
UNIVERSITY



EMORY
UNIVERSITY



BROWN



PRINCETON
UNIVERSITY



Massachusetts
Institute of
Technology



STANFORD



Dartmouth

Duke
UNIVERSITY



BIOMEDICINE

The Biomedicine Academy aims to provide students with a comprehensive overview of the biomedical field and establish the foundation for a future career within that realm. At all 4 grade levels, students will engage in project-based learning, which integrates “real world” experiences. Transferable skills like critical thinking and communication are encouraged through collaborative work. Activities and projects encompass concepts such as career exploration, laboratory fundamentals, bioengineering, biotechnology, epidemiology, medical terminology, pharmacology, and bioethics. BioMedicine instructors support the academic success of students to ensure they are poised to make valuable contributions to the fields of both biology and medicine at the end of their 4 years.



NINTH GRADE

Fundamentals of BioMedicine - Students learn the necessary skills and behaviors needed to conduct scientific inquiry. Ninth graders hone skill sets such as working independently at a lab station. In addition, students explore bioengineering principles. A key element to this class is the career exploration component. Guest speakers from various backgrounds are invited to speak to our students. Past speakers have included doctors, nurses, occupational therapists, and former students pursuing degrees and careers in biomedicine. Field trips to medical establishments expose our students to the biomedicine pathway.

TENTH GRADE

Biotechnology - The objective of this course is to train students in basic laboratory skills, thereby enhancing their ability to design research studies that investigate a broad range of topics within the biomedicine field. The outcome of this course is to equip students to: understand and adhere to basic lab safety requirements, comprehend and perform basic laboratory techniques and understand the principles of sophisticated laboratory methods such as cell culture, polymerase chain reaction (PCR), psychophysiology, and bodily mechanisms.

ELEVENTH GRADE

Experimental Design – Under the guidance of the instructor, students will generate their own question that will springboard their research project. These studies are focused on a student’s area of interest. Scientific reasoning, data analysis, and communicating results are hallmarks of this course. The overarching goal of this course is to have students submit their projects for regional, state, and national competitions.

Medical Terminology – Students will become familiar with medical terms that enable universal communication among biomedical professionals. In addition to key terminology of human anatomy and physiology, students will gain an understanding of the rules for building and analyzing medical terms.

TWELFTH GRADE

Pharmacology and Law & Medical Ethics - Students will familiarize themselves with ethical questions that are pivotal to medicine, law, biology, and public policy. Students will read primary sources including essays, court decisions and opinion pieces to prepare their arguments. The course also covers ethical issues that health-care workers face in the workplace and proper behavior and etiquette that should govern their practice. The second component of the course is pharmacology. In the pharmacology portion of the course, students learn about the principles underlying drug action and how drugs affect the body. This is done by studying the mechanism of action, general effects, and therapeutic uses for major drug classes (anti-biotics, painkillers, anti-virals, anti-malarials etc.). Students also apply the pharmacological principles to discuss emerging therapeutic strategies and issues.

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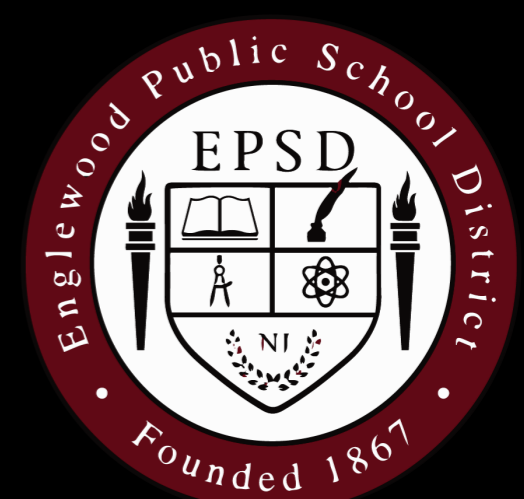
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FINANCE

The Finance Academy is designed for students interested in pursuing business and finance. Students learn about the basics of economics, business operations, financial management, financial analysis, finance markets, fundamentals of investment, marketing essentials and international business. Students practice thinking creatively to analyze real-world cases to provide improvement strategies and plans.



NINTH GRADE

Introduction to Business - Students learn about business incorporation, organization, and operation. Additionally, students develop business plans for a start-up of choice.

TENTH GRADE

Finance Planning - Students study financial statements, financial management, financial contracts and financial law. Students begin conducting financial research on public companies and have opportunities to explore different types of investment options.

ELEVENTH GRADE

Marketing Essentials – Students learn effective marketing strategies applicable to different types of businesses. Students explore how real companies face marketing challenges and how the economies of different countries and cultures impact people around the world. Students will be exposed to the current world of marketing and learn how marketing concepts function in business and the global economy through a project-based learning environment. Students have the option to take AP Macroeconomics.

TWELFTH GRADE

International Business – Students learn about the global economy. An emphasis is placed on global perspective. Students study the business opportunities of globalization, foreign direct investment and international trade. Students will gain professional development and discover the opportunities and challenges of the global market.

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LAW & PUBLIC SAFETY

The Law and public Safety Academy is designed for students who have an interest in law, public service, justice, and government. Students learn about the legal system in the United States and develop strong critical thinking and public speaking skills. Additionally, students use their acquired knowledge of legal terminology and the legal system to research, discuss and write about current legal issues affecting their community.



NINTH GRADE

Introduction to Law and Government - Students will receive an introduction to the American legal system, the law of torts, consumer law, and family law.

TENTH GRADE

Criminal Law – Students will examine categories of crime, the elements of crime, criminal procedure, the criminal justice process, and juvenile justice.

ELEVENTH GRADE

Constitutional Law - Students will analyze and interpret the Constitution, as well as amendments, and identify rights and privileges. Students learn about judicial and executive power, congressional authority, and equal protection under the law.

TWELFTH GRADE

Issues in Law and Public Policy - This course more carefully examines American government and political ideology, with a focus on public policy and various contemporary issues in law. Students participate in a self-directed curriculum.

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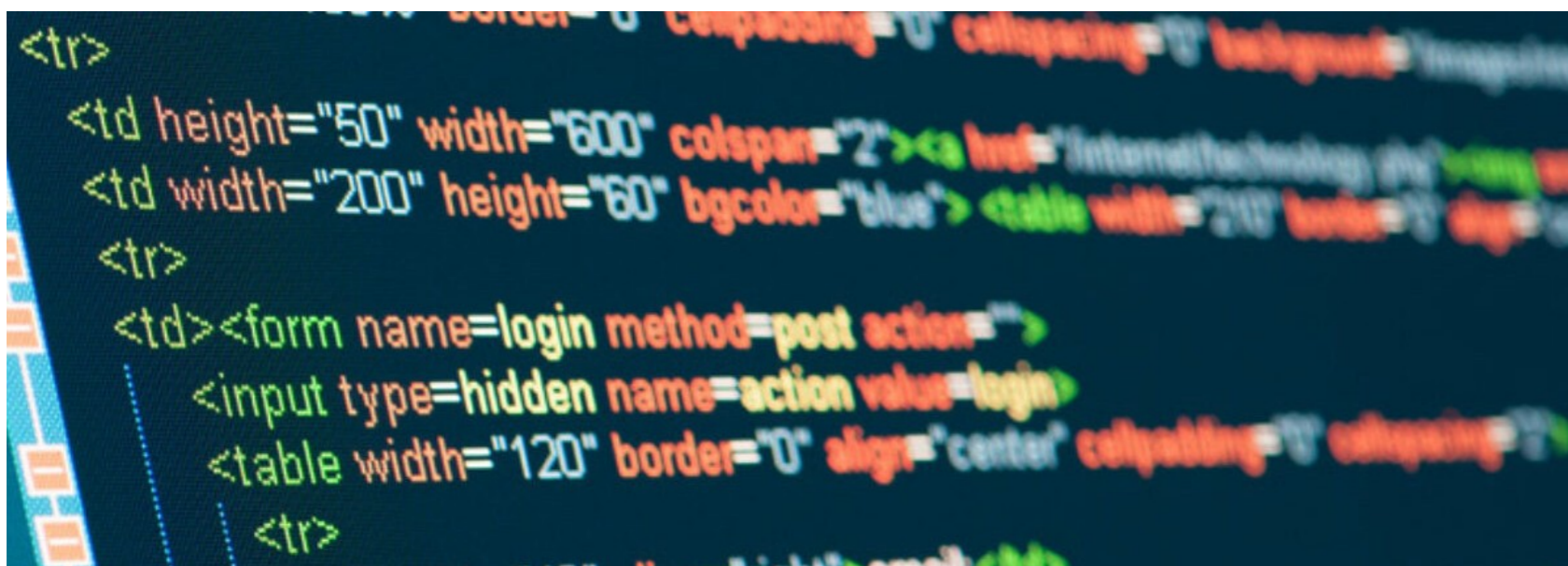
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INFORMATION SYSTEMS

The Information Systems Academy is designed for students interested in computer science. Students learn various programming languages, such as Java. Students also learn about computer fundamentals and networking.



NINTH GRADE

Introduction to Computer Science and IT Essentials - Students learn how computers work and interact, and the applications of various computer software. Students build and design computers and learn how software is integrated with hardware.

TENTH GRADE

Networking – Students will cover the history, theory, design engineering and installation of networks to connect digital computers. The course is designed to prepare students to plan and implement a network. The course also covers network and implementation tools to meet current development trends and real-world skills necessary for optimum functionality in the 21st Century.

ELEVENTH GRADE

AP Computer Science - Students become proficient in Java. Students master the programming languages. Students apply programming skills to develop new software that would have a useful implication in the real world.

TWELFTH GRADE

Cybersecurity - Students learn about computer science ethics and cybersecurity law. Students gain a deep understanding of the real-world applications of computer science and become knowledgeable of technological issues being faced by society.

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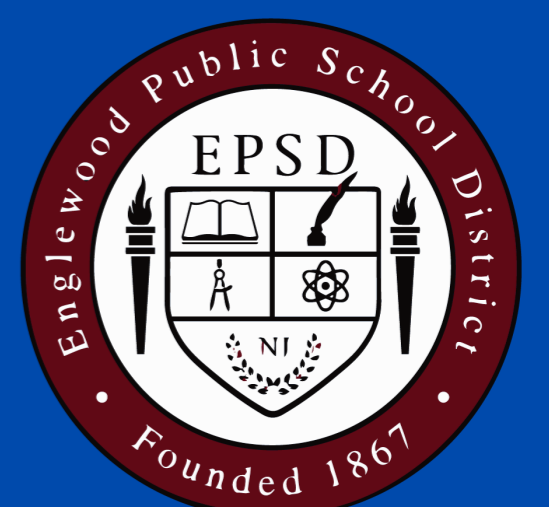
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PRE-ENGINEERING

The Pre-Engineering Academy is designed for students interested in engineering. The academy's curriculum has an emphasis on engineering sciences, including design technology and computer science. Classes are project-based and focused on creation and building. Students develop a deeper understanding behind product development, architecture design, robotics, and more.



NINTH GRADE

Introduction to Engineering Design - Students learn how to work the engineering design process to solve engineering and real-world problems. Professional computer-aided design (CAD) software is learned and applied by students to test their design solutions in a 3-D prototyping environment.

TENTH GRADE

Computer Integrated Manufacturing- Students learn how computers are used in the automated manufacturing processes to control the machines that build products. Vex Robotics products are utilized to engage in different robotics projects.

ELEVENTH GRADE

Principles of Engineering - Students learn how mathematics and science principles are used in the design and implementation of engineering systems. Through application of theory and hands-on experiences, students gain knowledge of engineering systems, mechanical design applications, materials testing, structural and statistical analysis, and remote control systems and dynamics.

TWELFTH GRADE

Engineering Design and Development - This is the senior capstone course that requires all students to research, design and develop a prototype of a solution to a problem they identify. New inventions or processes can be patented.

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FREQUENTLY ASKED QUESTIONS

How is admission based?

Admission to the DMHS School Choice Program is highly selective and competitive due to the large pool of applicants we receive each year. As part of the application process, prospective students are required to take the entrance exam, then advance to an interview. The admissions committee analyzes each applicant carefully, considering test scores, middle school transcripts, letters of recommendation, the entrance exam, and the interview before making a decision. We review every applicant's file holistically and in context. We appreciate every student who has shown interest in our school, and each student should be proud of their achievements whether they have been accepted or not.

What academy concentrations are offered?

We have five specialized academic magnet programs: BioMedicine, Finance, Law & Public Safety, Information Systems, and Pre-Engineering.

What type of students is the DMHS School Choice Program looking for?

Students accepted to the program show a genuine interest in a particular field of study, as well as meet the academic standards we require. Due to the competitive nature of our application process, and the limit of students we can accept each year, we cannot accept every student who meets these standards.

What is asked on the entrance exam?

The entrance exam consists of a mathematics exam and a reading comprehension exam. The entrance exam gives the admissions committee an idea of the academic ability of each applicant. The entrance exam is required of all applicants.

When is the application deadline?

Each student must submit his/her application to the Academies by the application deadline, November 17, 2023. We recommend all applicants attend our open house.

Can a student change their academy once accepted?

No. Once a student is enrolled in an academy program and begins classes in a particular program, no transfers are permitted. However, students are encouraged to take specialized electives in all five programs when enrollment numbers permit.

How many AP (Advanced Placement) Courses are offered?

We have over fifteen different AP Classes, including Biology, Chemistry, Physics I, Physics II, Physics C, Environmental Science, Calculus AB, Calculus BC, Statistics, Macroeconomics, US Government & Politics, English Language & Composition, World History*, US History*, Spanish Language & Culture, Chinese Language & Culture, French Language & Culture, and more. Academy classes are designed to be project-based and to enhance the learning process. Each class has a unique curriculum designed specifically for our students.

Is busing available for out of district student students?

We are no longer providing courtesy busing for out of district students, please check with your home school district to see if busing is provided to our program.

How many hours of homework do Academy students receive on a daily basis?

Students receive more homework than most other high schools due to the academic rigor and fast pace of our courses. The specifics are dependent on each student, however, time management is key.

How big is the student population at the academies?

The school's vibrant, diverse community consists of 500 students currently enrolled in grades 9 to 12.



For all other admissions-related inquiries,
contact: admissions@epsd.org

**DWIGHT MORROW HIGH SCHOOL/ACADEMIES@ENGLEWOOD
ADMINISTRATIVE TEAM**

Joe Armental, Principal

Abraham Alarcon, Supervisor of AE

Olga Castellanos, Vice Principal

Matthew Lawrence, Vice Principal

**ENGLEWOOD PUBLIC SCHOOL
DISTRICT ADMINISTRATION**

Dr. Marnie Hazelton, Superintendent of Schools

Dr. Laura Scamardella, Assistant Superintendent

Cheryl Balletto, Business Administrator

Dr. Jennifer Wirt, Supervisor of Secondary Education

BOARD OF EDUCATION

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