EXPLORE THE ACADEMIES

PUBLIC MAGNET SCHOOL OF CHOICE

ACADEMIES AT ENGLEWOOD
2020 INFORMATIONAL BOOKLET

PURSUE YOUR PASSION!

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

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Students at the Academies at Englewood have the privilege of taking part in a distinctive high school experience, one that gives you the freedom to explore your 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, and students have access to equipment and facilities not normally found in a high school setting. Students leave the Academies with a fine academic background and an invaluable experience in his/her field of interest. It is truly a privilege to be an Academy student.

AN ACADEMY EDUCATION

30+ Clubs & Student Organizations

15+ Advanced Placement (AP) Courses

100% Student Enrollment in Four-Year Colleges/Universities

60+ Internships Offered Through Affiliation, Including Englewood Hospital & Medical Center

135 Students Accepted Each Year (Approximately)

5 Specialized Academic Magnet Programs

18 Years of Providing High-Achieving Students with Academically Rigorous Courses

72+ Towns
DAY IN THE LIFE OF AN ACADEMY STUDENT

The school day runs from 8:00 am to 2:47 pm, and students participating in clubs, pursuing research, or attending instructor office hours get to take the 6:30 pm late bus.

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*Sample of Student Schedule

SAMPLE OF CLUBS/ORGANIZATIONS

Student Council
HOSA (Future Health Professionals)
Academy SciJournal
BioOlympiad
YSAP
The Maroon Tribune
Model UN
Mock Trial
JSA (Junior Statesmen of America)
TSA (technology Student Association)
UNICEF
American Red Cross
Page Turners
FBLA (Future Business Leaders of America)
DECA
Vocal Synergy
Prosthetics for Change
Diversity Club
Dr. John Grieco Scholarship Fund
South Asian Student Union
Asian Young Life
National Honors Society
SENIOR EXPERIENCE

Students in the twelfth grade participate in Senior Experience, where students do an internship in a chosen field of interest. For example, students may choose to intern at a Bergen County official's office, a financial analysis firm, a hospital, or a law firm. Students must be at the internship every Wednesday, and are excused from all classes. Senior Experience was designed in such a way so students can gain valuable work experience outside the classroom. Students also get a deeper understanding of what a certain profession or career entails.

SCHOOL EVENTS

Club Fair: In the beginning of each year, the Student Council organizes the annual Club Fair, where students can learn about the different clubs and student organizations. Over 30 clubs participate each year. Students have the ability to create a club as well.

Diversity Day: Every year, one of the Academies' biggest traditions is Diversity Day. This is a day when we celebrate our student's cultural diversity. Student groups participate in cultural performances on stage and showcase a variety of cultural dishes.

March Madness: Every March, a competition is held between the different academies. Points are earned for the completion of different activities and projects, and it's a time to be proud to be a member of your academy.

Freshman Experience: Before classes start in September, incoming freshmen take a day trip, and participate in bonding activities where the new students can get to know each other as well as upperclassmen.

*The above is only a sampling of school events, for the full list visit our website.*
The Academies at Englewood curriculum has a huge emphasis on college and career prep. Students far-exceed the New Jersey graduation requirements, and have take many advanced classes at the college level by graduation. 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 helps to immerse students in fields of interest. We are proud of our all our students' achievements. Just in the Class of 2021, three students were named National Merit Scholarship Recipients. Many students each year are accepted to some of the nation's most prestigious institutions and universities. Below are a few examples:
The BioMedicine Academy is designed for students interested in medical studies and/or research sciences. Courses are designed to appeal to both interests, and students take classes in Pharmacology, Medical Terminology, Medical Law & Ethics, Experimental Design, Research, Biotechnology, Epidemiology, and Career Explorations. Students receive a fine academic background and preparation for any career in medicine or biological sciences he/she wants to pursue.

**NINTH GRADE**
In ninth grade, students take courses related to career exploration and laboratory fundamentals, in addition to biology. Students have the option to take AP Biology. Guest speakers from various high-profile backgrounds give students an in-depth overview of what his/her career entails.

**TENTH GRADE**
In tenth grade, students take courses in Experimental Design & Epidemiology, in addition to chemistry or AP Chemistry. Students learn efficient experimental design, laboratory and research techniques, how to interpret scientific literature, and analyze epidemiological studies.

**ELEVENTH GRADE**
In eleventh grade, students take courses in Biotechnology, Research, and Medical Terminology. Students additionally take physics or AP Physics. Students learn advanced biotechnology techniques, and learn advance medical terminology. Throughout the year, students have the opportunity to pursue research in our labs, where students can apply the skills he/she obtained in the previous years.

**TWELFTH GRADE**
In twelfth grade, students take courses in Pharmacology and Medical Law & Ethics. Students additionally can take Anatomy & Physiology and AP Environmental Science. In Pharmacology, students learn about drug design, pharmacokinetics, pharmacodynamics, and pharmacogenomics. Students are also required to participate in an internship each Wednesday. BioMedicine students typically intern at hospitals, research institutions, or offices in health services. Students may also intern at a practicing physician's office.
The Finance Academy is designed for students interested in pursuing business and finance. Students learn about economics, financial management, running a business, business operations, finance markets, financial analysis, accounting, marketing, and international business. Students get a unique experience in financial analysis by conducting economic and financial research using real-time market and economic data offered by sophisticated financial analysis technologies.

**NINTH GRADE**

Students in the ninth grade take classes in Introduction to Business. Students learn about business incorporation, organization, and operation. Students additionally get to develop business plans for a start-up of choice.

**TENTH GRADE**

Students in the tenth grade take classes in Financial Accounting. Students learn about financial statements, and analyze businesses and corporations to determine the viability of investments. Students begin financial research fundamentals, and practice on sophisticated analytic technologies.

**ELEVENTH GRADE**

Students take classes in Business Marketing and learn effective marketing strategies applicable to different types of businesses. Students learn about product proposition, and are able to identify market opportunities. Students additionally learn about market segmentation and other advanced market concepts.

**TWELFTH GRADE**

Students take classes in International Business, and learn about the global economy. Students additionally get to take AP Macroeconomics. There is an emphasis on global perspective, and students learn about international trade. Students additionally learn about the government's financial sector. Students are well prepared to conduct financial research and market analysis.
The Law and public Safety Academy is designed for students who have an interest in law, public service, justice, and government. Students in this academy 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**

In their freshman year, students take *Introduction to Law and Government*. Students gain a basic understanding of most areas of law including an introduction to the American legal system, juvenile justice, the law of torts, consumer law, and family law.

**TENTH GRADE**

Students in the Sophomore year take *Criminal Law*. This course allows students to examine different types of crimes, the elements of crime, criminal procedure and the criminal justice process.

**ELEVENTH GRADE**

Students take classes in *Constitutional Law*. Students 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**

Students in the final year with the Academy take *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.
The Information Systems Academy is designed for students interested in computer science. Students learn various programming languages, such as Python, JavaScript, and Swift. Students also learn about computer fundamentals and networking.

**NINTH GRADE**

Students in the ninth grade take classes in 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**

Students take classes in Networking, and learn how computers interact. Students develop a deeper understanding of how software is integrated with hardware, and understand how and why computers need to communicate. Students also learn how the internet works and keeps the world connected.

**ELEVENTH GRADE**

Students take classes in programming. Students become proficient in Python, JavaScript, and Swift. Students master the programming languages. Students apply programming skills to develop new softwares that would have a useful implication in the real world.

**TWELFTH GRADE**

Students in the twelfth grade take classes in CyberSecurity. Students additionally AP Computer Science Principles with Swift. 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.
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**

Students take classes in 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**

By taking classes in 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**

By taking classes in Principles of Engineering, students learn how mathematics and science principles are used in the design and implementation of engineering systems. The activities and content in this course are designed to coordinate with the content of the standard 11th grade physics courses.

**TWELFTH GRADE**

Students take 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.
FREQUENTLY ASKED QUESTIONS

How is admission based?

Admission to the Academies at Englewood 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 application essay, 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 his/her achievements whether he/she has 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 Academies looking for?

For the most part, students accepted to the Academies at Englewood 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 writing 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, December 3, 2020. We recommend all applicants attend our open house.

Can a student change his/her academy once accepted?

No. Once a student is enrolled in an Academy and begins classes in a particular program, no transfers are permitted. However, Academy 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.

What clubs are offered at the Academies?

Our school has over thirty clubs and student organizations, in all fields of interest. Learn more on our website.

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 does the Senior Experience work?

Students in the twelfth grade participate in a year-long internship every Wednesday. Students are excused from all classes, and get the opportunity to immerse themselves in fields of interest. The school offers over 60 internship opportunities through affiliations with organizations and corporations, such as the Englewood Hospital & Medical Center. Students can intern at any institution or corporation of interest.

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.
ADMINISTRATIVE TEAM

Benjamin Suro, Principal
Mariette Ng, Supervisor of Academies
Rosemary Seitel, Supervisor of Academies

ENGLEWOOD PUBLIC SCHOOLS BOARD OF EDUCATION

Robert L. Kravitz, Superintendent of Schools
Molly Craig-Berry, President
Steven Barrios, Vice President
Carol Bender, Supervisor of Student Affairs
Joseph Armental, Director of Athletics
Dr. Noel Gordon, Director of Guidance

DESIGNED & DEVELOPED BY ACADEMIES AT ENGLEWOOD STUDENTS