

WHICH ACADEMY IS FOR ME?

Course Requirements – Class 2015

*Academy of
Bio-Medicine*

*Academy of
Finance*

*Academy of
Information
Systems*

ACADEMIES @ ENGLEWOOD

*Academy of Law
& Public Safety*



*Academy of
Pre-Engineering*

274 Knickerbocker Road
Englewood, NJ 07631
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Campus Administration

Dr. Richard Segall, *Superintendent*
Elizabeth Willaum, *Interim Assistant Superintendent*
Dorian Milteer, *Principal*

BM**Bio-Medicine Academy**

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math (Sequence per ability)	Algebra I, II Analysis I	Algebra II Analysis I, II	Analysis I, II Calculus Statistics AP Options	Analysis II Applied Advanced Mathematics Calculus Statistics AP Options
English	American Lit I	American Lit II	World Lit I	World Lit II AP English Lit & Composition
Science	Biology	Chemistry	World Lit II AP English Lit & Composition	Anatomy & Physiology Earth Science Environmental Science AP Options
Social Studies	American History I	American History II	World Studies AP Options	Political Science & Government Sociology AP Options
World Language (Spanish or French)	Spanish I, II Spanish Heritage I French I, II	Spanish I, II, III Spanish Heritage I, II French I, II, III	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV	Spanish I, II, III, IV Spanish V with Certification French I, II, III, IV, V AP Options
Physical Education	PE/Health	PE/Driver Theory	PE/First Aid	PE/Family Living
Arts/Music**	Electives Available	Electives Available	Electives Available	Electives Available
Humanities***	Electives Available	Electives Available	Electives Available	Electives Available
Technology	Intro to Information Technology	Elective Options	Elective Options	Elective Options
Biomedicine	Science Safety, Careers & Bioengineering	Epidemiology & Experimental Design	Medical Science Terminology	Bioethics/Pharmacology
Biomedicine Electives (Minimum- 1 per year)	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below
Guidance Projects	Freshman Seminar (Ethics)	HSPA/PSAT Prep	Gateway Seminar	Senior Experience
Clubs	One per trimester	One per trimester	One per trimester	

This Scope and Sequence may change slightly before school opens in September.

All New Jersey students must pass the High School Proficiency Assessment.

Forty hours of Community Service are required prior to graduation.

Dual Enrollment and other AP offerings are listed in the course catalog.

<u>Biomedical/Science Electives</u>		
Astronomy	Marine Biology	Optics
Biophysics	Medibotics	Pharmacology Botany
Meteorology	Virology	Electricity & Microbiology
Zoology	Magnetism	

PE**Pre-Engineering Academy**

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I, II Analysis I	Algebra II Analysis I, II	Analysis I, II Calculus Statistics AP Options	Analysis II Applied Advanced Mathematics Calculus Statistics AP Options
English	American Lit I	American Lit II	World Lit I	World Lit II AP English Lit & Composition
Science	Biology	Chemistry	Physics AP Options	Anatomy & Physiology Earth Science Environmental Science AP Options
Social Studies	American History I	American History II	World Studies AP Options	Political Science & Government Sociology AP Options
World Language <i>(Spanish or French)</i>	Spanish I, II Spanish Heritage I French I, II	Spanish I, II, III Spanish Heritage I, II French I, II, III	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV	Spanish I, II, III, IV Spanish V with Certification French I, II, III, IV, V AP Options
Physical Education	PE/Health	PE/Driver Theory	PE/First Aid	PE/Family Living
Arts/Music**	Electives Available	Electives Available	Electives Available	Electives Available
Humanities***	Electives Available	Electives Available	Electives Available	Electives Available
Technology	Intro to Information Technology	Electives Available	Electives Available	Elective Options
Pre-Engineering	Intro to Engineering Design	Computer Integrated Manufacturing	Principles of Engineering	Engineering Design/ Development
Pre-Engineering Electives <i>(Minimum - one per year)</i>	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below
Guidance Projects	Freshman Seminar (Ethics)	HSPA/PSAT Prep	Gateway Seminar	Senior Experience
Clubs	One per trimester	One per trimester	One per trimester	

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<u>Pre-Engineering Electives</u>

Architecture I	Medibotics
Architecture II	Mechanical Systems
CO-2 Dragsters	Robotics

FIN
Finance Academy

The Academies@Englewood Finance Academy introduces students to the broad career opportunities in the financial services industry. The Finance Academy also provides a fundamental background on the interdependency among nations in the global economy and international trade as we proceed through the 21st century. Through their Academy experience, students gain an understanding of the connections that exist between their education and the workplace. Through teachers and industry mentors, the Academy provides the students with the curriculum and guidance necessary for rewarding careers.

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English	American Lit I	American Lit II	World Lit I	World Lit II AP English Lit & Composition
Science	Biology	Chemistry	Physics AP Options	Anatomy & Physiology Earth Science Environmental Science AP Options
Social Studies	American History I	American History II	World Studies AP Options	Political Science & Government Sociology AP Options
World Language <i>(Spanish or French)</i>	Spanish I, II Spanish Heritage I French I, II	Spanish I, II, III Spanish Heritage I, II French I, II, III	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV	Spanish I, II, III, IV Spanish V with Certification French I, II, III, IV, V AP Options
Physical Education	PE/Health	PE/Driver Theory	PE/First Aid	PE/Family Living
Arts/Music**	Electives Available	Electives Available	Electives Available	Electives Available

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Finance Electives	
Banking and Financial Services	Introduction to U.S. Income Taxes
Expert Series-Current	Events in Finance
Starting Your Own Business	Introduction to Accounting
Stock Market	Managing Your Money and Finances
Business and Personal Law	

IS Information System Academy

The Information Systems Academy is a career academy in which students are interested in understanding how networks and business computing work.

The curriculum draws together information on networks by Cisco Information Systems and Computer Operating Systems from Microsoft. Successful students qualify for the CompTia A+, CompTia Network+ and MCDST (Microsoft Certified Desktop Support Technicians) certifications by these companies. Four years of classes include, CompTia A+ Certification, Advanced Networked Systems, Java Programming and Microsoft Certified Desktop Support Technician.

Many courses in the ISA are open to all students in the school. These include Intro to Technology, Intro to Databases and SQL, Video Production 1 and 2, Digital Design 1 and 2, Digital Photography 1 and 2, Flash Animation, Advanced Web Design, Programming Concepts for Robotics, Visual Basic, and C# Programming for XNA GS.

The structure of the Information System Academy is fluid and it is adjusted to reflect the trends of industry for Information Systems professionals.

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Physical Education	PE/Health	PE/Driver Theory	PE/First Aid	PE/Family Living
Arts/Music**	Electives Available	Electives Available	Electives Available	Electives Available
Humanities***	Electives Available	Electives Available	Electives Available	Electives Available
Technology	Intro to Information Technology	Elective Options	Elective Options	Elective Options
Information Systems	CompTia A+ Certification	Advanced Networked Systems	Programming in Java	Microsoft Certified Desktop Support Technician
Information Systems Electives (Minimum - one per year)	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below
Guidance Projects	Freshman Seminar (Ethics)	HSPA/PSAT Prep	Gateway Seminar	Senior Experience
Clubs	One per trimester	One per trimester	One per trimester	

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Information Systems Electives

Video Production I, II	Visual Basic
Digital Design I, II	Digital Photography I, II
Introduction to Databases and SQL	Programming Concepts for Robotics
C# Programming for the XNA GS	Flash Animation
Advanced Web Design	

LPS Law and Public Safety Academy

Law and Public Safety Academy students are individuals with an interest in how our political and justice systems work. The Law Academy provides students with a comprehensive overview of the American legal system and helps them develop skills that will enable them to become well-informed, active members of their communities. Students examine a number of topics including the criminal justice system, the role of lawmaking and advocacy in establishing public policies, the operation of the courts at the state and federal levels, and the impact of the Constitution on their lives.

The Law Academy students address these areas through an approach that focuses on students developing critical thinking and problem solving skills. Students examine issues from multiple perspectives and develop both written and oral arguments highlighting their points of view. Law Academy students have many opportunities to hone their critical thinking, writing and oral presentation skills by participating in mock trials, moot courts, debates, and legislative simulations. In addition, students get a chance to have contact with legal and law enforcement professionals through the Law Academy's lecture series and regular field trips to sites such as courts and legislative chambers.

Course highlights include Introduction to Law and Criminal Law which provide freshman and sophomore students an overview of our legal system. More advanced courses in Constitutional Law and Issues in Law and Public Policy allow students to examine the impact of legal policies on their lives. In addition, law related electives and extra-curricular activities such as Mock Trial and Model UN give students other opportunities to explore our legal system.

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Physical Education	PE/Health	PE/Driver Theory	PE/First Aid	PE/Family Living
Arts/Music**	Electives Available	Electives Available	Electives Available	Electives Available
Humanities***	Electives Available	Electives Available	Electives Available	Electives Available
Technology	Intro to Information Technology	Elective Options	Elective Options	Elective Options
Law and Public Safety	Introduction to Law	Criminal Law		
Law Electives (Minimum - one per year)	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below	See Elective Offerings Below
Guidance Projects	Freshman Seminar (Ethics)	HSPA/PSAT Prep	Gateway Seminar	Senior Experience
Clubs	One per trimester	One per trimester	One per trimester	

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Law and Public Safety Electives	
Business Law	Forensics
Civil Rights Law	Juvenile Justice
Criminology	Mock Trials/ Trial Advocacy
Entertainment, Media & the Law	Model UN
AP Comparative Politics/ Us Government	Political Science & Government