

# WHICH ACADEMY IS FOR ME?

Course Requirements – Class 2021

*Biomedicine  
Academy*

*Finance  
Academy*

*Information  
Systems  
Academy*

*Law  
& Public Safety  
Academy*

## ACADEMIES @ ENGLEWOOD



*Pre-Engineering  
Academy*

274 Knickerbocker Road  
Englewood, NJ 07631  
201-862-6133

[www.academies-englewood.org](http://www.academies-englewood.org)

Campus Administration  
Robert L. Kravitz, Superintendent  
Peter Elbert, Principal

## Academies @ Englewood - Class of 2021

### Finance Academy

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I Geometry Algebra II/Trig (+ 2 day a week elective in Geometry)	Geometry Algebra II/Trig. Pre-Calculus	Algebra II/Trig Pre-Calculus Calculus Statistics AP Options	Pre-Calculus 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	Spanish I, II Spanish Heritage I French I, II Mandarin Chinese I	Spanish I, II, III Spanish Heritage I, II French I, II, III Mandarin Chinese I, II	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV Mandarin Chinese I, II, III	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
Finance	Intro to Business	Business & Personal Finance	Accounting	Marketing AP Economics
Finance 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		Money Matters		Senior Experience
Clubs	One per semester	One per semester	One per semester	One per semester

This Scope and Sequence may change slightly before school opens in September.  
 Forty hours of Community Service are required prior to graduation.  
 MATHEMATICS (Must Take and Pass) PARCC Algebra I and (Must Take) PARCC Geometry and (Must Take) PARCC Algebra II  
 ENGLISH LANGUAGE ARTS (ELA) (Must Take) PARCC ELA Grade 9 and (Must Take and Pass) PARCC ELA Grade 10 and (Must Take) PARCC ELA Grade 11

<b><u>Finance Electives</u></b>	
Banking and Financial Services	Introduction to U.S. Income Taxes
Current Topics in Finance	Microeconomics
Global Economics	Starting Your Own Business
Introduction to Accounting	Stock Market
Managing Your Money and Finances	

**Academies @ Englewood - Class of 2021**  
**Biomedicine Academy**

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I Geometry Algebra II / Trig (+ 2 day a week elective in Geometry)	Geometry Algebra II/Trig Pre-Calculus	Algebra II/Trig Pre- Calculus Calculus Statistics AP Options	Pre-Calculus Calculus Statistics AP Options
English	American Lit I	American Lit II	World Lit I	World Lit II AP English Lit & Composition
Science	Biology	Chemistry Biology offered	AP 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	Spanish I, II Spanish Heritage I French I, II Mandarin Chinese I	Spanish I, II, III Spanish Heritage I, II French I, II, III Mandarin Chinese I, II	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV Mandarin Chinese I, II, III	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	Change to Pharmacology & Law and Medical Ethics
Biomedicine 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	Money Matters	Gateway Seminar	Senior Experience
Clubs	One per semester	One per semester	One per semester	

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 ENGLISH LANGUAGE ARTS (ELA) (Must Take) PARCC ELA Grade 9 and (Must Take and Pass) PARCC ELA Grade 10 and (Must Take) PARCC ELA Grade 11

<b><u>Biomedical/Science Electives</u></b>		
Marine Biology	Pharmacology	Zoology
Medibotics	Virology	
Electricity & Magnetism	Microbiology	

## Academies @ Englewood - Class of 2021

### Information Systems Academy

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I Geometry Algebra II/Trig (+ 2 day a week elective in Geometry)	Geometry Algebra II/Trig Pre-Calculus	Algebra II/Trig Pre-Calculus Calculus Statistics AP Options	Pre-Calculus 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	Spanish I, II Spanish Heritage I French I, II Mandarin Chinese I	Spanish I, II, III Spanish Heritage I, II French I, II, III Mandarin Chinese I, II	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV Mandarin Chinese I, II, III	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 Technology	Elective Options	Elective Options	Elective Options
Information Systems	IT Essentials	Intro to Networking	Programming in Java	Cybersecurity
Information Systems 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				Senior Experience
Clubs	One per semester	One per semester	One per semester	One per semester

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 Forty hours of Community Service are required prior to graduation.  
 MATHEMATICS (Must Take and Pass) PARCC Algebra I and (Must Take) PARCC Geometry and (Must Take) PARCC Algebra II  
 ENGLISH LANGUAGE ARTS (ELA) (Must Take) PARCC ELA Grade 9 and (Must Take and Pass) PARCC ELA Grade 10 and (Must Take) PARCC ELA Grade 11

<b><i>Information Systems Electives</i></b>	
Digital Design I, II	Video Production I, II
Digital Photography I, II	Visual Basic
Intro. to Databases & SQL	Flash Animation
Programming Concepts for Robotics	Web Design I
Intro to Programming using C++	Adobe Illustrator
Adv. Flash Animation	

## Academies @ Englewood - Class of 2021

### Law and Public Safety Academy

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I Geometry Algebra II/Trig (+ 2 day a week elective in Geometry)	Geometry Algebra II/Trig Pre-Calculus	Algebra II/Trig Pre-Calculus Calculus Statistics AP Options	Pre-Calculus 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	Sociology AP Options
World Language	Spanish I, II Spanish Heritage I French I, II Mandarin Chinese I	Spanish I, II, III Spanish Heritage I, II French I, II, III Mandarin Chinese I, II	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV Mandarin Chinese I, II, III	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
Law and Public Safety	Introduction to Law	Criminal Law	Constitutional Law	Issues in Law and Public Policy
Law 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		Money Matters		Senior Experience
Clubs	One per semester	One per semester	One per semester	One per semester

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 MATHEMATICS (Must Take and Pass) PARCC Algebra I and (Must Take) PARCC Geometry and (Must Take) PARCC Algebra II  
 ENGLISH LANGUAGE ARTS (ELA) (Must Take) PARCC ELA Grade 9 and (Must Take and Pass) PARCC ELA Grade 10 and (Must Take) PARCC ELA Grade 11

**Law and Public Safety Electives**

AP US Government	Juvenile Justice
Law and Order	Criminology or Forensic (provided based on interest)
Mock Trial	

**Academies @ Englewood - Class of 2021**  
**Pre-Engineering Academy**

Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
Math <i>(Sequence per ability)</i>	Algebra I Geometry Algebra II/Trig (+ 2 day a week elective in Geometry)	Geometry Algebra II/Trig Pre-Calculus	Algebra II/Trig Pre-Calculus Calculus Statistics AP Options	Pre-Calculus 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	Spanish I, II Spanish Heritage I French I, II Mandarin Chinese I	Spanish I, II, III Spanish Heritage I, II French I, II, III Mandarin Chinese I, II	Spanish I, II, III, IV Spanish Heritage I, II, III French I, II, III, IV Mandarin Chinese I, II, III	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
Pre-Engineering	Intro to Engineering Design	Computer Integrated Manufacturing	Principles of Engineering	Engineering Design and 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		Money Matters		Senior Experience
Clubs	One per semester	One per semester	One per semester	

This Scope and Sequence may change slightly before school opens in September.  
 Forty hours of Community Service are required prior to graduation.  
 MATHEMATICS (Must Take and Pass) PARCC Algebra I and (Must Take) PARCC Geometry and (Must Take) PARCC Algebra II  
 ENGLISH LANGUAGE ARTS (ELA) (Must Take) PARCC ELA Grade 9 and (Must Take and Pass) PARCC ELA Grade 10 and (Must Take) PARCC ELA Grade 11

<b><u>Pre-Engineering Electives</u></b>	
Advanced CAD	Flight Science
Architecture I	Medibotics
Architecture II	Mechanical Systems
CO-2 Dragsters	Renewable Energy
Creative Design Challenge	Robotics
Introduction to Electronics	