

# POLITICS ACADEMY

Learn what it means to have a career in policymaking

## Topics Covered

- Policy Making
  - Policy Pitch Introduction
  - Introduction to the US Government
- Campaign & Elections
  - Building Your Own Campaign
- Debates
- International Relations
  - Game Theory Activity
- Political Theory
  - Writing an Opinion Editorial
  - Asserting & Defending your Position Activity

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The goal is for students to learn how political scientists address the important issues of our time and how public officials implement policy in response. Students will leave this program with a unified and challenging intellectual experience in the study of politics and will have the tools to create their own policy solutions to difficult problems.





# PRE-LAW ACADEMY

Learn what it means to have a career in  
policymaking

## Topics Covered

- US Court System
  - Your State Court
- Federal vs State Court Divides
- How to Read Cases
  - Case-Reading
  - Interactive Thesis Writing
- How to Be Pre-Law
  - Practice LSAT Questions
- Small Claims State Court
- Analytical Reasoning Activity
- Mock Trial Final Activity

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Over the course of the program, we equip students with knowledge and confidence to pursue a career in law. Our goal is to provide a unique experience for students to explore law and litigation. We hope that all students interested in law will walk away with confidence in their ability to navigate the path to law school as well as an excitement for their future in law.





# BUSINESS LEVEL I ACADEMY

Do you mean business? Start one!

## Topics Covered

- Idea Generation
  - Discussion of need-finding — how to match products to market
  - Characteristics of a good solution: feasibility, appeal, sustainability.
- Elevator Pitch
  - Why are they important and how to be successful
  - Value propositions
  - How to write an elevator pitch
- Market Research
  - How to enter a new market and stay ahead of competition
  - Design principles
- Competitive Analysis
  - Thinking about product, competitors, customers, and their place in an industry
  - SWOT analysis
- Customer Research
- Business Plan
  - Start-ups, timeline, financing, and growth
- Career Tips





# BUSINESS LEVEL II ACADEMY

Learn to diagnose & solve problems within businesses

## Topics Covered

- What is Consulting?
  - Who is MBB?
- Market Sizing Research
- Profit & Loss Lecture
- How to Read a Financial Statement Lecture
- Entering a New Market Case
- What is the HBS Case Method?
- HBS Case Walkthrough Lecture
- Resume Workshop
- How to Build a Slide Deck
- Case Presentations

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The goal is for students to learn how to diagnose, analyze, and solve problems in businesses. Our program provides the unique opportunity for students to sharpen and utilize both critical thinking skills and creativity when approaching a problem. This intersectional problem solving method allows students to practice thorough analysis of the market then equips them with the tools to pitch reasonable and viable solutions.





# CODING LEVEL I ACADEMY

Learn the basics of programming in Python

## Topics Covered

- Fundamentals of Computer Science
  - Algorithmic Thinking, Pseudocode, and Abstraction
- Python Basics
  - Print Statements, Operations, and Variables
- Creating Dynamic Programs
  - User Input, Strings, Conditional Statements, and Loops
- Data Structures
  - Lists/Nested Lists, String/List Manipulation, Sets, and Dictionaries
- Abstraction in Python
  - Functions and Importing Modules
- Object-Oriented Programming
  - Classes and Objects and Methods
- File Input/Output
  - Reading Text Files and Writing to Text Files





# CODING LEVEL II ACADEMY

Discover the basics of web development

## Topics Covered

- JavaScript Overview
  - Conditionals, The Ternary Operator
  - Functions, Arrow Functions, Anonymous Functions, Higher-Order Functions, Functional Programming
- Git
  - Basic Commands: push, pull, add, commit, status, reset
  - GitHub
- HTML/CSS
  - Common HTML Tags: head, body, div, img, etc.
  - Common CSS Properties: color, background, font-size, font-family, position, etc.
- Flexbox
- Styled Components and Advanced Styling
  - Importing Fonts
  - Extending Styles
  - Themes
  - Responsive Design Using Media Queries
- Project Development
  - File Structure and Version Control





# PRE-MED LEVEL I ACADEMY

Step into the world of medicine with the basics of biology and organic chemistry

## Topics Covered

- Genetics
  - Interactive Genetics Activity
- Immunology
  - CRISPR Case Study
- How to Be Pre-Med
- Introduction to Organic Chemistry
  - Hydrocarbons & Alkanes
  - Alkyl Side Groups & Naming

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The goals of Pre-Med I are to introduce students to the fundamentals of pre-medical studies. We hope to provide an extensive overview of pre-med while also encouraging students to think critically and quickly. Each day, we will begin with an in-depth lecture covering an important aspect to the medical field. We then transition into hands-on activities created to orient students to the realities of working in medicine. Our program guides students through topics and higher order thinking skills necessary to succeed in the medical field.





# PRE-MED LEVEL II ACADEMY

Step into the world of medicine with the basics of biology and organic chemistry

## Topics Covered

- Heart & Coronary Artery Lecture
- Lung Lecture
- Muscles & ALS Lecture
- Radiological Scan Examination & Discussion
- Renal Failure & ESRD Lecture
- Digestive System & Reports
- Skin & Basal Cell Carcinoma Lecture
- Blood Testing Activity
- Brain Lecture
- Endocrine Lecture
- Associated Diseases Lecture
- Final Presentations

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By stepping into the shoes of a physician, this academy challenges students to think quickly and decisively in order to treat patients. Each day, we begin with an introduction to a new pathology. From there, students begin to examine real-life case studies and analyze the implications of the decisions made as well as alternatives.

