

# Engineering Academy

## Program of Choice Elkins High School

Innovation · Design · Construction

The Engineering Academy exists to provide students opportunities to receive in-depth exposure to a specific career pathway in the engineering field.

### Sample career opportunities include:

- Engineer
- Software Developer
- Architect
- Mathematician
- Researcher Analyst
- Scientist Manager

### Requirements of the Academy:

- Complete 4 credits of the Engineering Academy Program of Study
- Enroll in an AAC or above level math and science course all four years
- Enroll in one credit of AAC/AP Computer Science
- Complete the Academy Capstone course
- Complete 25 volunteer hours per year for a total of 100 by graduation
- Complete 4 enrichment activities per year for a total of 16 by graduation

### Sample Enrichment Activities:

- FBISD's STEAM Fest
- Guest Speakers
- Houston Mini Maker Fair
- Science Engineering Fair
- Engineering Career Fair
- HCC Innovation Lab tour

**SAMPLE High School Plan:** The sample below is for the class of 2027 and beyond. Variations such as involvements in athletics, fine arts and summer courses taken will affect the actual high school plan for each student. Courses that are in **BOLD** are requirements for the Engineering Academy. You are required to take at least one AAC level or above science and math course all four years. You must also enroll in one credit of AAC/AP Computer Science. This sample assumes AAC Algebra I is taken in eighth grade.

### Sample Schedule (This sample schedule assumes that Algebra 1 is taken in middle school.)

	9th	10th	11th	12th
1	Eng I	Eng II	Eng III	Eng IV
2	World Geography	World History	US History	US Government and Macroeconomics
3	<b>AAC Geometry</b>	<b>AAC Algebra II</b>	<b>AAC Pre-Cal</b>	<b>AP Calculus</b>
4	<b>AAC Biology</b>	<b>AAC Chemistry</b>	<b>AP Physics I</b>	<b>AAC/AP Science Elective</b>
5	Language I	Language II	Fine Arts Elective	PE
6	<b>AAC/AP Computer Science</b>	Elective	Elective	Elective
7	<b>Engineering Design Process</b>	<b>Engineering Science</b>	<b>Aerospace Design I and/or Architecture Engineering</b>	<b>Engineering Design and Problem Solving</b>

For more information, please visit [www.fortbendisd.com/engineering](http://www.fortbendisd.com/engineering).

### Academy Specialized Courses:

**Aerospace Design I**

**Architecture Engineering**

## Application Window

**Application Window**  
**November 17 – December 12, 2025**

The application window is strictly enforced. Late applications will not be accepted. Be sure not to miss it!

Apply online at [www.fortbendisd.com/academies](http://www.fortbendisd.com/academies)

The link will go live on November 17<sup>th</sup>.

# Math and Science Academy

## Program of Choice Dulles High School

Innovation · Logic · Experimentation

The Math and Science Academy exists to provide students opportunities to advance through a specialized series of courses to prepare them for careers in math and science fields.

### Sample career opportunities include:

- Medical Doctor
- Software Developer
- Architect
- Mathematician
- Researcher Analyst
- Scientist Engineer

### Requirements of the Academy:

- Complete a combination of 10 advanced math and science credits
- Enroll in a AAC or above level math and science course all four years
- Complete 1 credit of AAC/AP Computer Science
- Complete a Senior Graduation Project
- Complete 25 volunteer hours per year for a total of 100 by graduation
- Complete 4 enrichment activities per year for a total of 16 by graduation

### Sample Enrichment Activities:

- FBISD's STEAM Fest
- Guest Speakers
- Houston Mini Maker Faire
- Science Engineering Fair
- Science Nights
- Day of Discovery

**SAMPLE High School Plan:** Variations such as involvement in athletics, fine arts and summer courses taken will affect the actual high school plan for each student. Courses that are in **BOLD** are requirements for the Math and Science Academy. You are required to take at least one AAC level or above science and math course all four years. You must also enroll in one credit of AAC/AP Computer Science.

**Sample Schedule** (This sample schedule assumes that Algebra 1 is taken in middle school.)

	9th	10th	11th	12th
1	English I	English II	English III	English IV
2	World Geography	World History	US History	US Gov't. and Economics
3	<b>AAC Geometry</b>	<b>AAC Algebra II</b>	<b>AP Pre-Calculus</b>	<b>AP Calculus</b>
4	<b>AAC Biology</b>	<b>AAC Chemistry</b>	<b>(AP Level) Science Elective</b>	<b>Science Elective (AP or Above Level)</b>
5	Language I	Language II	Fine Arts Elective	PE
6	<b>AAC/AP Computer Science</b>	Elective	Elective	Health and Professional Communications
7	Elective	<b>AP Physics I</b>	Elective	<b>Math or Science Elective (AP or Above Level)</b>

For more information, please visit [www.fortbendisd.com/mathandscience](http://www.fortbendisd.com/mathandscience).

### Academy Specialized Courses:

**Organic Chemistry**

**Modern Physics**

**Multi-variable Calculus**

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## Program of Choice Hightower High School

Collaboration · Passion · Philanthropy

The Medical Science Academy exists to provide students opportunities to explore world-class medical facilities and position themselves for medical careers.

### Sample career opportunities include:

- Medical Doctor Nurse
- Lab Technician
- EMT
- Medical Researcher
- Forensic Scientist
- Dentist
- Pharmacy Technician

### Requirements of the Academy:

- Complete Medical Science Academy credits
- Enroll in a AAC or above level science course all four years
- Complete all appropriate course certifications
- Complete Practicum at designated time
- Complete 25 volunteer hours per year for a total of 100 by graduation
- Complete 4 enrichment activities per year for a total of 16 by graduation

### Sample Enrichment Activities:

- Guest speakers
- Around the World of Medicine (ATWOM) Conference
- Hospital visits
- UofH College of Nursing Tour
- Health Museum
- Access Health
- HCU Pre-Med Program Presentation
- MS Anderson Sugar Land Tour

**SAMPLE High School Plan:** The sample below is for the class of 2028 and beyond. Variations such as involvement in athletics, fine arts and summer courses taken will affect the actual high school plan for each student. Courses that are in **BOLD** are requirements for the Medical Science Academy. **You are required to take at least one AAC level or above science course all four years and highly encouraged to take advanced level math all four years.**

## Sample Schedule

### Biomedical Academy Program of Study

	9th	10th	11th	12th
1	Eng I	Eng II	Eng III	Eng IV
2	World Geography	World History	US History	US Government and Macroeconomics
3	AAC Geometry	AAC Algebra II	AAC Pre-Cal	AP Calculus
4	<b>AAC Biology</b>	<b>AAC Chemistry</b>	<b>AP Physics I</b>	<b>AAC/AP Science Elective</b>
5	Language I	Language II	Fine Arts Elective	PE
6	Elective	Elective	<b>Medical Intervention @ Reese</b>	<b>Biomedical Innovation @ Reese</b>
7	<b>Principles of Biomedical Science</b>	<b>Medical Terminology</b>	<b>Anatomy and Physiology @ Reese</b>	<b>Medical Assistant @ Reese</b>

\*This sample schedule assumes that Algebra 1 AAC was taken in middle school.

For more information, please visit [www.fortbendisd.com/medicalsience](http://www.fortbendisd.com/medicalsience).

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