

## Expectations

All students will consistently demonstrate competency through a body of work in five major areas that support the accomplishment of the school's mission and that are aligned with national, state, and local standards.

- Students will demonstrate mastery of academic competencies throughout the curriculum and extended learning opportunities.
- Students will collect, organize, analyze, and assess information and strategies to create, apply, explain, and evaluate solutions.
- Students will communicate effectively through listening and speaking, reading and writing, and media.
- Students will demonstrate respect and responsibility while managing personal time, conduct, and planning.
- Students will work effectively with others and strengthen group performance by sharing ideas and workloads.

These over-arching expectations encompass developmentally appropriate academic, civic, and social outcomes and identify what a United ISD student will know and be able to do upon graduation.



**United Independent School District**

**United High School  
Engineering & Technology Magnet**

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Laredo, Texas 78045  
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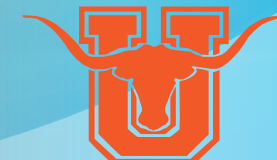
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UNITED HIGH SCHOOL

**ENGINEERING &  
TECHNOLOGY  
MAGNET**



It is the policy of United ISD not to discriminate on the basis of race, color, national origin, sex, handicap in its programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.



**Class  
of 2022  
and thereafter**

## OUR MISSION

United High School Engineering and Technology Magnet will provide a dynamic staff that will challenge, excite, and inspire students to experience authentic learning and real world applications for the 21st century.

## OUR GOAL

1. To provide advanced academic preparation for college bound students.
2. To create an awareness of the skills necessary for the development of successful future leaders in the areas of Engineering and Advanced Technology

### Entrance Criteria

To create an awareness of the skills necessary for the development of successful future leaders in the areas of Engineering and Advanced Technology

### Grade Point Average

Students should have a composite grade average of at least a B (80%) for Math, Science, Language Arts/Reading and Social Studies based on the 7th grade end of year report card and the 8th grade January report card except Reading.

### CogAT (Cognitive Abilities Test)

Students must take the required entrance exam.

## MAGNET FOUR YEAR PLAN

### FRESHMEN

#### Subject

- Pre-AP English I
- Pre-AP Biology I
- Pre-AP Algebra I / Pre-AP Geometry
- Pre-AP World Geography
- P.E. / Extracurricular / Elective
- Business Image Management
- Foreign Language / Elective
- Art I / Pre-AP Art / Art 1301 / Pre-AP Theater Arts
- Speech / Health
- **\*Principles of Applied Engineering**

### SOPHOMORES

#### Subject

- Pre-AP English II
- Pre-AP Algebra II
- Pre-AP Chemistry
- Pre-AP World History / US History 1301
- AP Precalculus
- Foreign Language
- Fundamentals of Computer Science / AP Computer Science Principles
- Extracurricular / Elective
- **\*Engineering Design & Presentation I**
- **Robotics & Automation**

### JUNIORS

#### Subject

- AP English Language / English 1301
- AP Calculus AB
- Advanced Physics
- AP US History / US History 1302
- Foreign Language/CLAR/Extracurricular/Elective
- PSAT / SAT
- Psyc 2301 / 2314 / CLAR/GOLD / Extracurricular / Elective
- CLAR/GOLD / Extracurricular / Elective
- CLAR/GOLD / Extracurricular / Elective
- **\*Scientific Research Design**

### SENIORS

#### Subject

- AP English Lit. / English 1302 / English 2327
- AP Calculus BC / AP Statistics / College Math
- AP Physics 1 / AP Biology / AP Chemistry / AP Physics C: Mechanics / AP Environmental Systems
- AP Macro Economics & AP Government / Government 2305 / 2306
- College Prep / CLAR/GOLD / Extracurricular / Elective
- CLAR/GOLD / Extracurricular / Elective
- CLAR/GOLD / Extracurricular / Elective
- CLAR/GOLD / Extracurricular / Elective
- **AP Computer Science A**
- **\*Engineering Design & Problem Solving**

### Community Service

Students are required to complete 250 community service hours within four years.

Community service may include:

- HEB Feast of Sharing
- Special Olympics
- Sacred Heart Children's Home
- AHEC
- Peer Tutoring, etc.

### Enrichment Activities

The following enrichment activities are designed to promote academic awareness and career opportunities to give students a competitive edge through advanced academic study and workplace skills training.

- University visits to Engineering Colleges
- FIRST and BEST Robotics Competitions
- UIL Computer Science and other UIL Academics
- Participation and competition in leadership conferences, and engineering and advanced technology events
- Participation in athletics and student organizations

## CERTIFICATIONS AVAILABLE

- AutoCAD Certified User
- Microsoft User Specialist
- Inventor



Magnet Specialty Courses listed in orange must be taken to complete Magnet Graduation Plan. STAAR EOC Test 10.28.2024

\* Magnet Specialty Courses required by Magnet and Early College Students