Engineering Foundations Program of Study (West High School)

Career Cluster: Engineering
Endorsement: Business & Industry or STEM

Course(s)	State ID	Local ID	Credits	Prerequisites	Industry Based Certifications
1st Course					
Principles of Applied Engineering	13036200	007131	1	None	None
2nd Course					
Engineering Design and Presentation	13036500	007246	1	Algebra I and at least 1 course from this program of study	None
3rd Course					
Honors Engineering Design & Problem Solving** **CCMR required course**	13037300	503081	1	Algebra I & Geometry, at least one credit in a level 2 or higher	989 NOCTI Engineering Technology Foundations- **CCMR required IBC**
4th Course					
Scientific Research & Design** Rocketry Course satisfies a science credit requirement on the Foundation High School Program.	13037200	007234	1	Biology and one credit from: Chemistry, Integrated Physics, Chemistry (IPC), or Physics	None
OR					
CTE Project Based Capstone**	12701101	007273	1	None	None
OR					
Career Prep for Program of Study**	12701121	007247	2	At least one Level 2 or higher CTE course	None
OPTIONAL COURSE					
VC Dual Credit Course ENGR 1304 Engineering Graphics	13037350	557316	1	See VC requirements	None

****TEA Level 3 or 4 course**

Career and Technical Student Organizations

SkillsUSA Texas: https://skillsusatx.org/

National Technical Honor Society: nths.org

All Career and Technical Education programs follow the district's policies of nondiscrimination on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups 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. VISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

Todos los programas de Educación Técnica y Profesional siguen las políticas del distrito de no discriminación por motivos de raza, color, origen nacional, sexo o discapacidad en sus programas, servicios o actividades vocacionales y brindan acceso equitativo a los Boy Scouts y otros grupos juveniles designados según sea necesario. por el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Título IX de las Enmiendas Educativas de 1972; y la Sección 504 de la Ley de Rehabilitación de 1973, según enmendada. VISD tomará medidas para garantizar que la falta de conocimientos del idioma inglés no sea una barrera para la admisión y participación en todos los programas educativos y vocacionales.