Programming & Software Development Program of Study

Career Cluster: Information Technology
Endorsement: Business & Industry or STEM

Course(s)	State ID	Local ID	Credits	Prerequisites	Industry Based Certification
1st Course					
Fundamentals of Computer Science (if not taken in Middle School)	03580140	002999	1	None	None
OR					
Computer Science I- Course satisfies 1 credit for Language Other Than English requirement on the Foundation High School Program.	03580200	002091	1	Algebra I	None
OR					
AP Computer Science Principles; Course satisfies 1 credit for Language Other Than English requirement on the Foundation High School Program.	A3580300	502094	1	None	None
2nd Course					
Computer Science I- Course satisfies 1 credit for Language Other Than English requirement on the Foundation High School Program.	3580200	002091	1	Algebra I	None
OR					
Computer Science II** **CCMR Required Course** (if not taken as a 1st course) *Course satisfies 1 credit Language Other Than English on the Foundation High School Program*	3580300	002092	1	Algebra I and Computer Science I or AP Computer Science Principles	1079 Information Technology Specialist: Java (Tier 2) **CCMR Required IBC**
OR					
AP Computer Science Principles (if not taken as a 1st course); *Course satisfies 1 credit for Language Other than English requirement on the Foundation High School Program.*	A3580300	502094	1	None	None
OR					
AP Computer Science A** *Course satisfies a 1 math credit and 1 credit for Language Other than English requirement on the Foundation High School Program.*	A3580110 A3580120	TBD	1 1	Recommended: Algebra I or students should be comfortable with functions & concepts found in the uses of functional notation such as f(x)= x+2 and f(x) = g(h(x))	None
OR					
VC Dual Credit Course: COSC 1301 Introduction to Computing	13027200	557098	1	None	None

See back for more information.

3rd Course					
Computer Science II** **CCMR Required Course** (if not taken as a 2nd course) *Course satisfies 1 credit Language Other Than English on the Foundation High School Program*	3580300	002092	1	Algebra I and Computer Science I or AP Computer Science Principles	1079 Information Technology Specialist: Java (Tier 2) **CCMR Required IBC**
OR					
Computer Science III** *Course receives 1.15 GPA weight; satisfies 1 credit Language Other Than English on the Foundation High School Program:*	03580350	507294	1	AP Computer Science A or Computer Science II	1079 Information Technology Specialist: Java (Tier 2) **CCMR Required IBC**
OR					
VC Dual Credit Course: COSC 1301 Introduction to Computing**	13027200	557098	1	None	None
4th Course					
Computer Science III** *Course receives 1.15 GPA weight; satisfies 1 credit Language Other Than English on the Foundation High School Program.*	03580350	507294	1	Computer Science II or AP Computer Science A	1079 Information Technology Specialist: Java (Tier 2) **CCMR Required IBC**
OR					
CTE Project Based Capstone**	12701101	007273	1	None	None
OR					
VC Dual Credit Course: COSC 1436 Programming Fundamentals I**	13028000	047096	2	See VC requirements.	None

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

Career and Technical Student Organizations

Texas Technology Student Association: texastsa.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.