



Cluster Overview: Focuses on careers in designing, planning, managing, building and maintaining the built environment



Architecture, Engineering Design and Technology, Networking

Student Name _____

Entered 9th grade: 20____ - 20____

ID _____ **Grade:** 9 10 11 12

Diploma Plan: RHSP DAP* MHSP TEXAS SCHOLAR

Note 1: Health and technology Applications locally required Note 2: Entered 9th grade in 2010 - 2011 and thereafter must include Fine Arts

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

	Middle School	8th	HS Courses:	
High School	9th	Core Courses:	English I / PAP Algebra I / Geometry / PAP Biology / PAP	World Geography / PAP Spanish I P. E. Fine Arts / Tech App (BIM)
		Career-Related Electives:	Concepts of Engineering and Technology (BIM)	
	10th	Core Courses:	English II / PAP Geometry / Algebra II / PAP Chemistry / PAP IPC	World History / PAP Spanish II (BIM)Tech App / Fine Arts Elective:
		Career-Related Electives:	Engineering Design and Presentation or Architectural Design or Interior Design or Computer Maintenance	
	11th	Core Courses:	English III / AP Adv. Math IV Algebra II* /MMA/ Pre-Cal /PAP/ DC Physics* PTI Chemistry / PAP	United States History / AP / DC Professional Communications / Comm Appl / Health Spanish III / DC
		Career-Related Electives:	Architectural Design or Advanced Architectural Design or Physics or Principles of InformationTechnology or Computer Maintenance	
12th	Core Courses:	English IV / AP / DC Algebra II/ Adv Math IV / Pre-Cal /PAP Calculus AP/ Math DC	Physics / PTI Fourth Science: Government/ AP/ DC Economics / AP/ DC Electives:	
	Career-Related Electives:	Advanced Architectural Design or Computer Maintenance		
Postsecondary	On-the-Job Training	Cabinetmaking/Millworking Carpentry	Construction Trades Decorator Design Assistant	Drafting/Computer Aided Drafting Home Improvement Sales Clerk
	Certificates	ADDA Drafter Drafter NCCER Carpentry	NCCER Introductory Craft Skills NCCER Construction Technology NCCER Maintenance: Industrial	OSHA Careersafe OSHA Ten Hour Safety
	Associate Degrees	Computer Science Architectural Design Construction Technology	Engineering Design Technology Design Technology Drafting	Engineering Technology Housing Studies
Bachelor Degrees	Architecture Construction Management	Engineering Environmental Design	Interior Environmental Design Urban Planning	
Graduate Degrees	Architecture Consumer Economics	Engineering Environmental Design	Historic Preservation	

Curricular Experiences:
[Family, Career and Community Leaders of America SkillsUSA](#)
[Technology Students Association](#)
[BEST Robotics, Inc.](#)
[FIRST Robotics Competition](#)
[The Infinity Project](#)

Career Learning Experiences:
 Apprenticeship
 Career Preparation
 Job Shadowing
 Internship

Extracurricular Experiences:
 Historic Building Tours
 Home Tours
 Language Immersion Programs
 School Newspaper
 Student Government
 UIL Academic Competitions
 Yearbook

Service Learning Experiences:
 Architectural/Engineering Summer Camps
 Campus Service Organizations
 Community Service Volunteer
 Habitat for Humanity
 Peer Mentoring / Peer Tutoring

COLLEGE CREDIT OPPORTUNITIES -- High School

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.

Professional Associations:
[American Architectural Foundation](#)
[American Institute of Architects](#)
[American Institute of Constructors](#)
[American Society of Civil Engineers](#)
[American Society of Interior Designers](#)
[American Society of Landscape Architects](#)
[Associated Builders and Contractors](#)
[Associated General Contractors of America](#)
[Construction Management Association](#)
[Design Build Institute of America](#)
[National Association of Home Builders](#)
[National Association of Women in Construction](#)
[National Trust for Historic Preservation](#)
[Texas Association of Builders](#)
[Texas Society of Architects](#)
[U.S. Green Building Council](#)

Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2010. All plans meet high school graduation requirements as well as college entrance requirements.