

Context of Change

- Rapidly Growing District – Facilities Needs (Bond)
- Small Learning Community Commitment
- Fiscal Constraints – Accelerated Schedule (3x3)
- Needs Assessment Inventory - OHI
- College Prep Focus
- Long Range Strategic Plans - LTISD 2006-2011
- Career Clusters – National & State Initiative

LTISD At A Glance:

- Located west of Austin
- District: 6,900 students
- LTHS: 2,100 students
- District: 13% Eco Dis/17% Hispanic

Vision – “Re”Visioned

- College Prep: P-16 for all
 - 3 + 4 year institute
 - 3 + 2
 - 3 + 2 + 2
 - 3 + Workforce entry

Institute Building

- Identification of Needs
 - Student Interest
 - Parent & Community Needs / Input
 - Workforce Data

INSTITUTES OF STUDY



Developing the Framework – *Institutes of Study*

- Foundation Course of Study
- Career Exploration Emphasis
- Post Secondary Preparation
 - Work Based Learning Programs
 - AP/Dual Credit Coursework
 - Articulated Courses – Tech Prep
 - Internships / Field Experience / Mentorship
 - Certifications / Licensures
- Selective Course of Study
- Corresponding Career Clusters

Building Depth - *Coherent Sequences*

Lake Travis High School Institutes of Study		
Institute of Humanities, Technology & Communications	Math, Engineering & Architecture Institute	Institute of Fine Arts
Foundation Course of Study		
Math/English/Science/Soc St BDM, BCIS, Computer Science Second Language Physical Education/Health Fine Arts	Math/English/Science/Soc St BCIS, BDM, Computer Science Second Language Physical Education/Health Fine Arts	Math/English/Science/Soc St BCIS, BDM, Computer Science Second Language Physical Education/Health Fine Arts
LTHS Career Exploration Emphasis		
AP Computer Science 1-3 Communications Applications Creative Writing/Journalism Intro to Criminal Justice Criminal Law Crimes in America Debate, Oral Intersp, Competitive Spk Film Production / Screenwriting Graphic Design Humanities* Newspaper Yearbook Technology Assistant Web Mastering	Introduction to Engineering Design Principles of Engineering Digital Electronics* Civil Engineering & Architecture* Engineering Design & Design* AP Calculus AB AP Calculus BC AP Computer Science 2.3 AP Statistics AP Physics B AP Physics C	Art 1-4 Band Choir Chorus Dance 1-4 Dance Team Debate 1-3 Jazz Ensemble Journalism Newspaper Orchestra Theatre Arts Yearbook
Post-Secondary Preparation: Certifications, Licensures, College Credit, Work-Based Learning, Internships		
AP College Credit Field Work / Internship* College Credit, Object Oriented Programming (Computer Science), Criminal Justice, Criminal Law, Crimes in America	AP College Credit Job Shadowing Engineering Internship Program College Credit, Object Oriented Programming (Comp Sci), Engineering Coursework (varies per college)	AP College Credit Internship Opportunities* Dual Credit Coursework
Selective Course of Study Recommendations		
AP English 3 AP English 4	AP Computer Science 1-3 AP Calculus AB/BC, Physics	AP English 3, 4 Creative Writing / Journalism
Corresponding Career Clusters		
• Arts, A/V Technology & Comm • Government & Public Admin • Information Technology • Law, Public Safety, Corrections & Security • Science, Tech, Engin., & Math	• Architecture & Construction • Manufacturing • Science, Technology, Engineering & Mathematics	• Arts, A/V Technology & Communication

*Courses recommended for approval for 2007-08 and beyond.

- Career Exploration / Post-Secondary Preparation

Spotlight on Engineering - PLTW

- Contextual / Project / Problem-Based
- Integrates National Standards in Math, Science, Technology & English Language Arts
- Has Breadth and Depth of Content
- Supported by Comprehensive Professional Development for Teachers

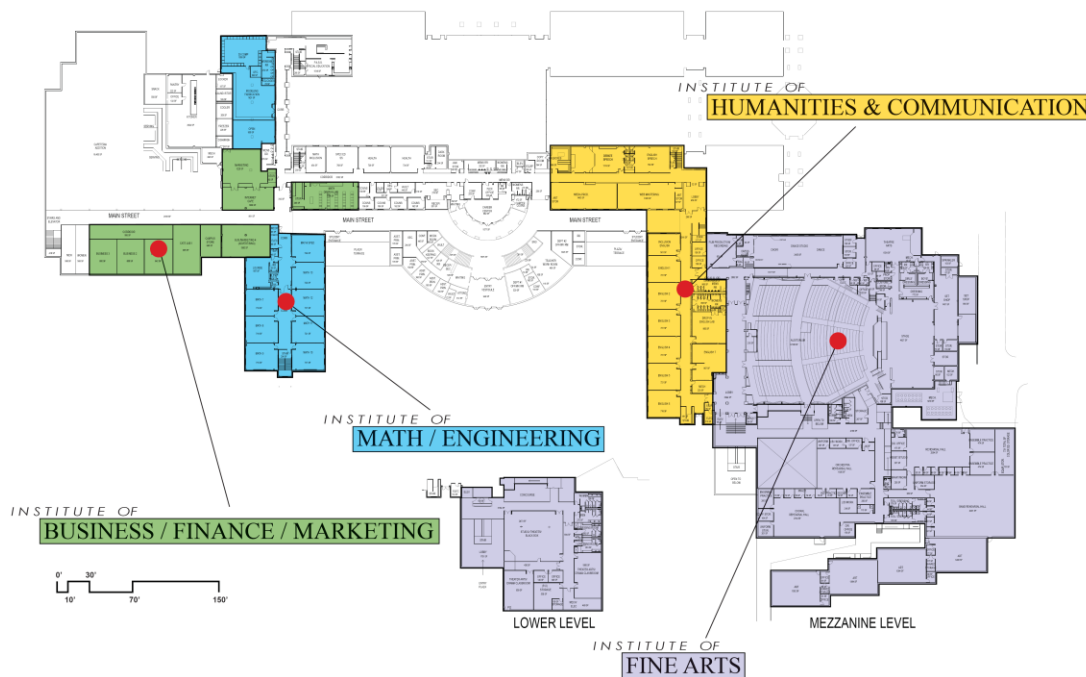
PLTW Courses

- Introduction to Engineering Design
- Principles of Engineering
- Digital Electronics
- Civil Engineering & Architecture



Creating the Culture – High School Design

- Reconstruction centered on Institutes through overall layout: Entry into math wing is via Engineering Institute; Advanced Sciences has “showcase lab” at entry; Technology Institute has internet café; Business/Marketing includes dynamic school store.



Partnership Development

- Engineering: Siemens, National Instruments, Texas State, University of Texas
- Business/Marketing: Dell, Freescale, Deloitte, McCombs School of Business
- Film Institute: Austin Film Festival; SXSW

Goal for Each Institute:

- Higher Education Institution Partnership
- Industry Partnership
- Community Partnerships – Internship/Field Experience

Partnership Development

Siemens & ACTE Engineering Academy Initiative

- Foster the Engineering Institute into an integrated, cohort-based academy
 - Moving past “Intro to This” / “Intro to That” into a commitment of depth of study
- Integrate engineering curriculum into other content areas
 - Engineering Development Team
 - English, Science, Social Studies, Math, Computer Science, Counselor, HS Assoc Principal, District Admin
 - Recruitment ~ “A Night at the Institutes”
 - Marketing ~ WEP & MEP
 - Middle School Initiatives (Gateway, Summer Camp)
- Professional Development: Teacher Externship to Siemens
 - Development team travels to Siemens’ HQ in Chicago
 - Looking for opportunities to incorporate engineering into curriculum
- Partner with post-secondary institutions to align engineering coursework
 - Representation from UT and ACC on our Advisory Board
 - Working to articulate High School courses for College Credit

Develop Advisory Boards with Industry & Post-Secondary Representatives

- Representation of close to 30 business, community, university reps
 - Post-Secondary: ACTE, E3 Alliance, ACC, UT
 - Industry Partnerships: IBM, Clear Cube, Freescale, National Instruments, Siemens
 - Parents / Staff / Students
- Purpose & Objective:
 - Where is it that we want our graduates to be?
 - How can we as an advisory board help with that goal?
 - What will you personally commit to move this forward?

- 2009-10 Advisory Board Goals
 - Job-Shadowing to Internships
 - Shift Leadership to Advisory Members
 - Provide Recommendations for New Course Offerings
 - Provide Counsel to Senior Projects
 - Adjust Structure of Meetings

Partnership Development ~ Articulation Agreements

- Current Business Articulations are through ACC:
 - BCIS
 - BIMM
 - Marketing
 - Computer Science
- Several Ag Articulations through ACC & Other Colleges/Universities
- Engineering ~ 2007-2008 Articulations:
 - Digital Electronics @ ACC
- Engineering ~ Current Articulations:
 - **ACC:** Digital Electronics & Principles of Engineering
 - **Texas State:** Intro to Engineering Design & Digital Electronics
 - **Texas Tech, UTSA, Texas A&M:** Pending

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