



Mini Grant Presentation 2015

Objective:

- Classroom Remodeling Suggestions
- Purchase of Technology (Laptops & IPADS)
- Reserve Monies for Field Trips

ARCHITECTURE ,AESTHETICS & Technology



A GUIDE FOR UNDERSTANDING ARCHITECTURE

Aesthetic:

- Artistic, relating to or dealing with the beautiful, especially in art, a feelingful response.

Aesthetics:

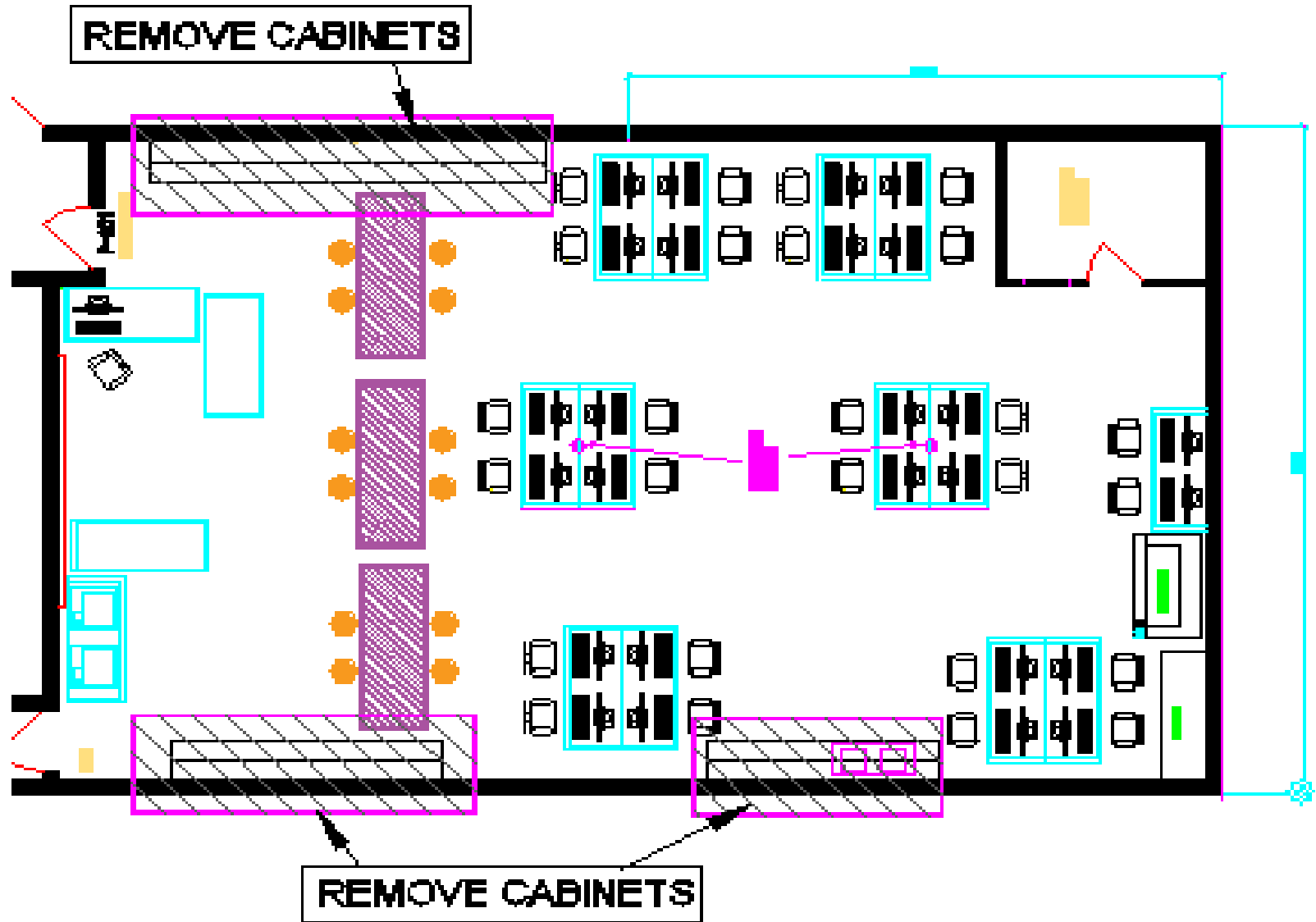
- A branch of philosophy that deals with the nature of the beautiful and judgment of beauty.



Basic Architecture Elements

Sensory
Formal
Technical
Expressive

Present Classroom



Remodeling & Designing Classroom

- **Sensory Elements-** work with classroom space and Add texture to the classroom so it feels like an architecture design studio.
- **Formal Elements-** Design Studio with Balance and Proportion within the limited classroom space.



Benefits

Safety Reasons:

- Prevent Safety Hazards due to Electric wiring.
- Keeps valuable new computers, plotters, secured and locked in separate rooms.
- It follows ADA (American Disability Act) regulations and aligns rules that are taught in class.

Educates:

- Promote an organized clean environment.
- Prepares students to real industry environment.
- Promotes students to take care of valuable material
- Motivates students to pursue the program in High School and University.
- Aligns with University/ and Firms.

Office & Technology

- Laptops & IPADS are needed to compete for SkillsUSA Organization on a yearly basis.
- Removing Desktops and transporting every year to competition causes depreciation on devices and liability on school property.
- Laptops and IPADS can be stored/ locked in the proposed Office shown preliminary floor plan.

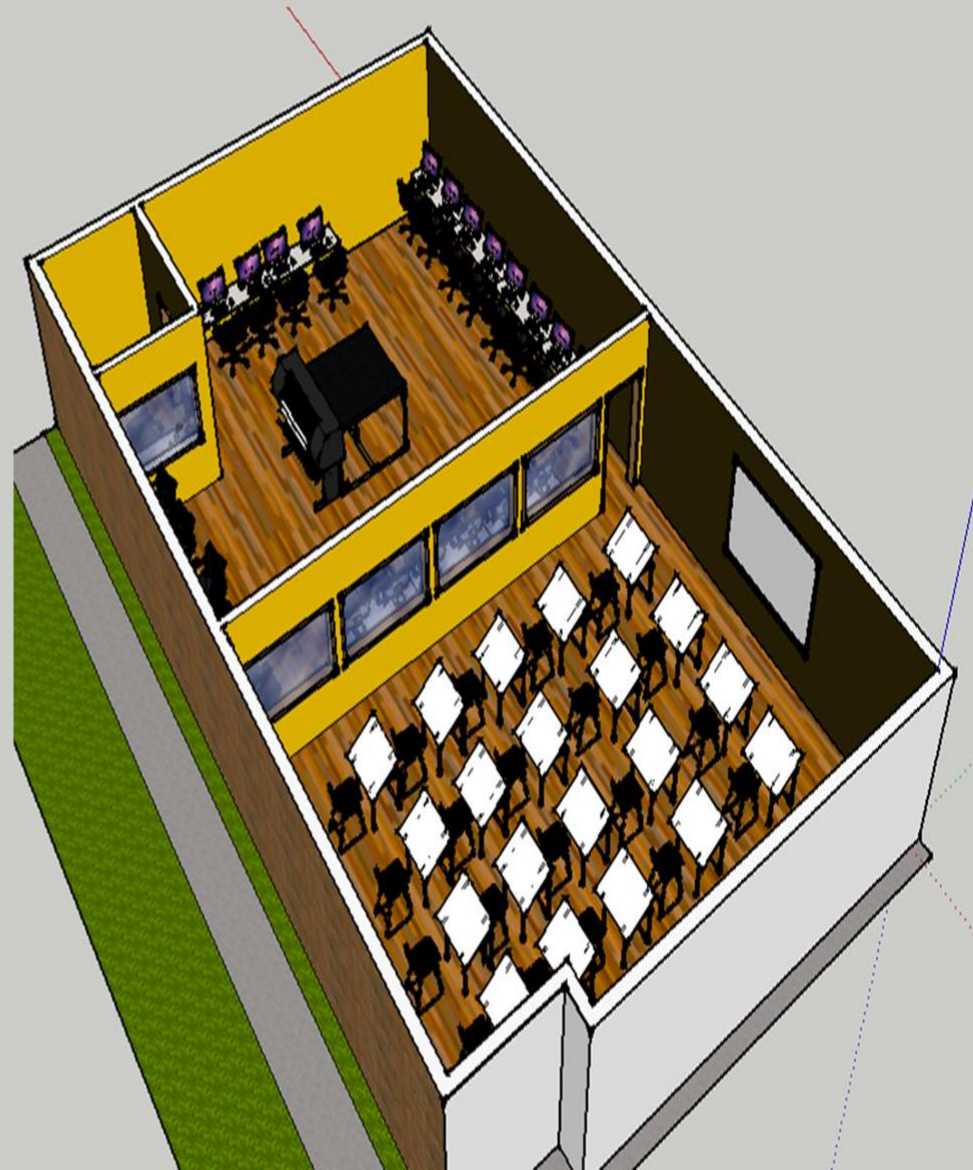




Before

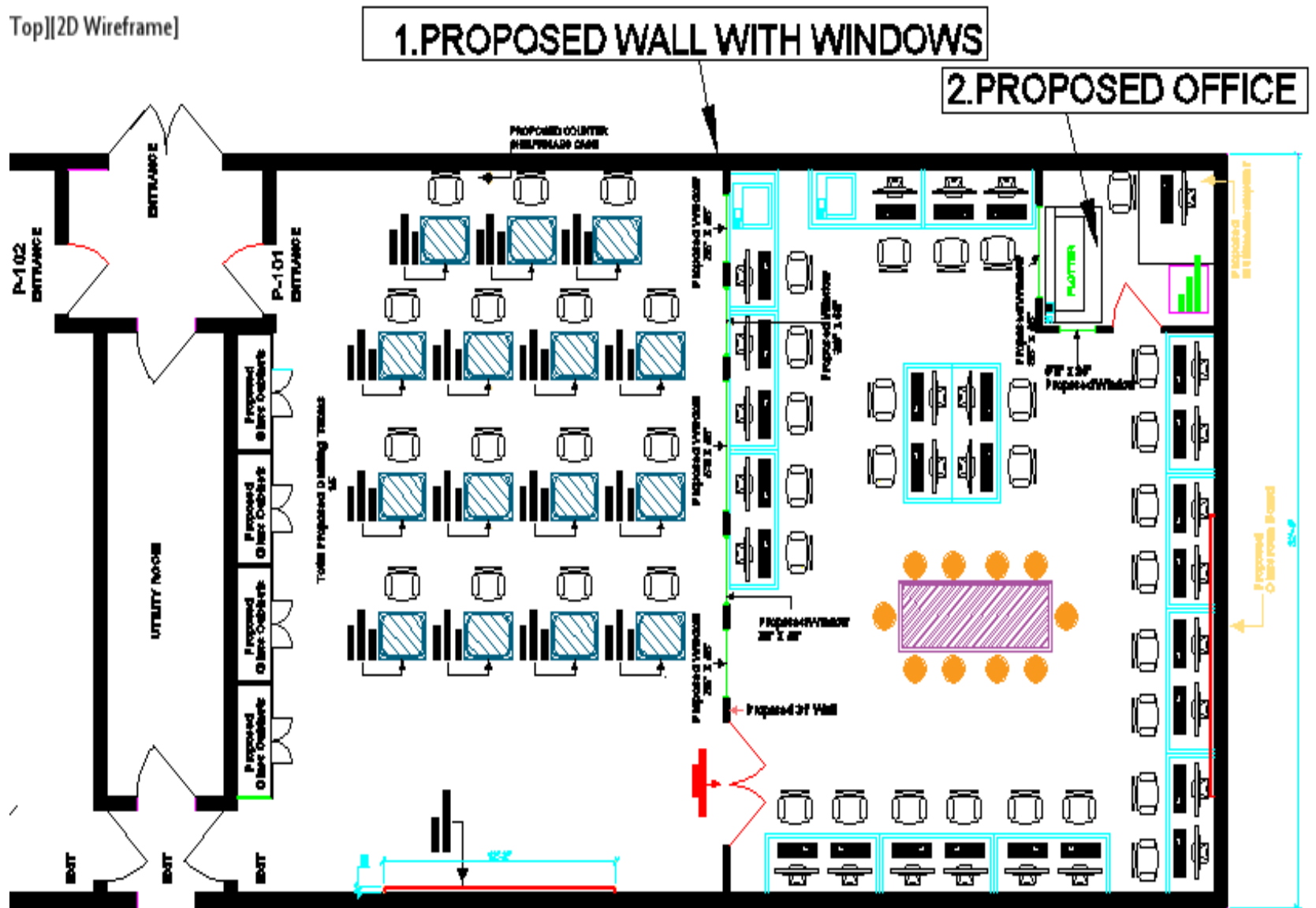


After



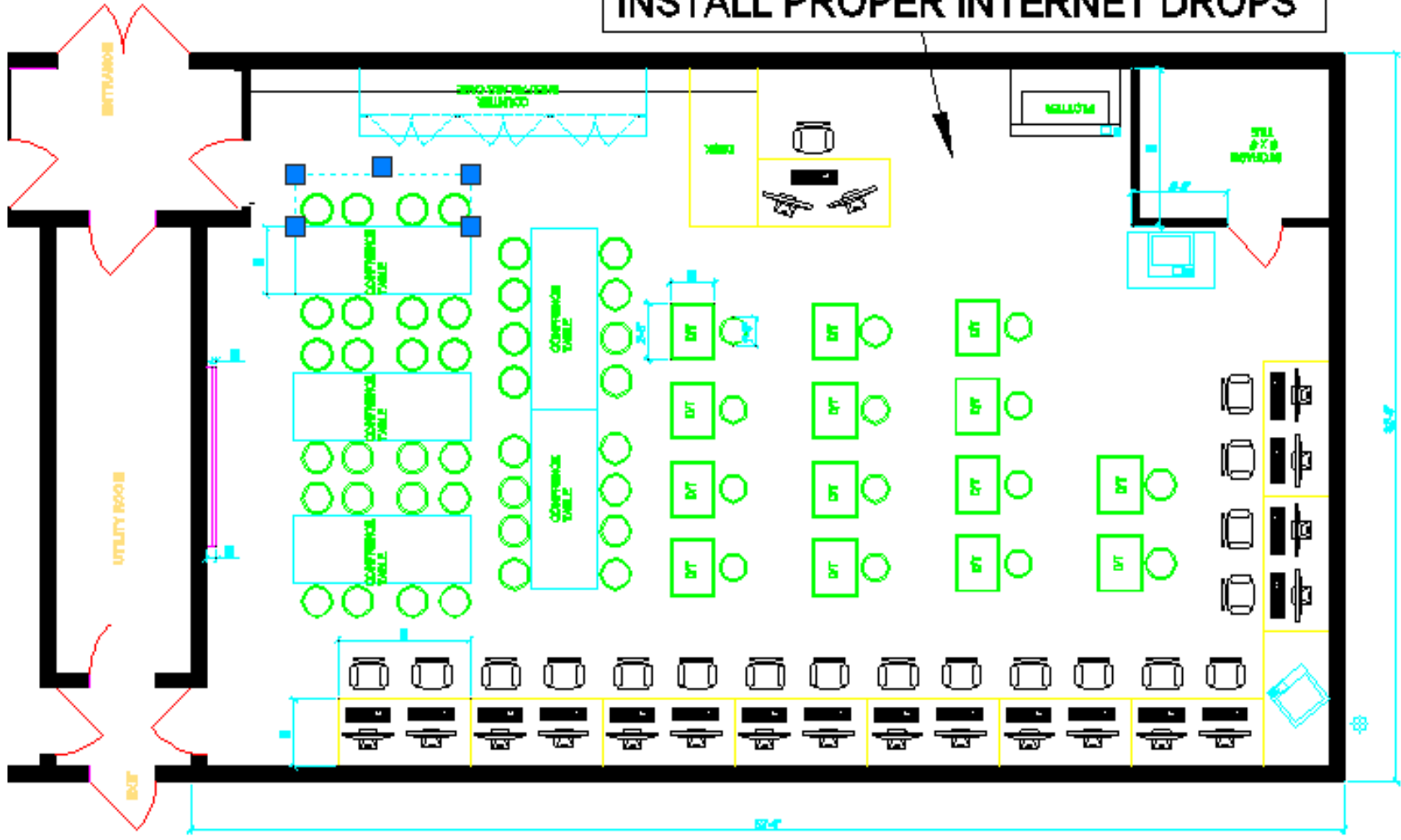
Preliminary Options 1

Top][2D Wireframe]



OPTION 2

INSTALL PROPER INTERNET DROPS





Manual Drafting



FIELD TRIPS- Students Fundraise to go..



**Dialogo in ITEC
with Texas A&M**

IMPACT ON Instruction & Employability Skills/ College Readiness??

- Principles of Architecture
- Architectural Design
- Advance Architecture
- **Practicum Internship-**

- **Advanced Technical Credit (ATC)-**
 - The Advanced Technical Credit (ATC) Program is an advanced placement program for students interested in preparing for college and a technical career that requires postsecondary education. Any student who successfully completes statewide-articulated secondary courses such as this one is eligible to receive **articulated credit** from any **participating public two-year college** in the state that offers the corresponding college course. Example: TSTC.

Cost Feasibility- see attachments



Career & Technical Education Department
 1351 E. Polk St. • Brownsville, TX 78520 • 956-698-0093



BISD CTE Department Mini-Grant Application for:
 Campus: Hanna High School
 Career Cluster: Architecture & Construction
 Teacher(s): Luis Hinojosa and Julietta Garcia-Ramirez

Note: (C= Construction & A=Architecture)

Project criteria:

1. address career cluster needs and take instruction to a higher level and include Project-Based Learning curriculum
2. support implementation of high quality instruction
3. integrate the use of technology into the curriculum-based activities
4. provide evaluations to support successful impacts on student learning

<i>Activity Name/Description</i>	<i>Description for use of funds</i>	<i>Funds Requested</i>
<i>Architecture Studio Furniture Updates</i>	<i>Add drafting tables and chairs to align with industry and universities (see attachments)</i>	<i>\$5,000- (A)</i>
<i>Architecture Studio Removal & Remodeling</i>	<i>Remove Kitchen cabinets and add proper internet drops to provide more spacing for computer workstations and drafting tables</i>	<i>\$10,000 (A)</i>
<i>Technology</i>	<i>Purchase 10-25 IPAD & Laptops for research on Architecture Projects, and sketching resources, competitions</i>	<i>\$25,000 (A & C)</i>
<i>Professional Development</i>	<i>Pay for Registration fees, travel expenses, meals, lodging, materials, etc. to attend seminars, and universities</i>	<i>\$10,000 (A & C)</i>
	Total Request	\$50,000

Note: (C= Construction & A=Architecture)

Teacher's Signature(s) _____ Date _____

Teacher's Signature(s) _____ Date _____

Principal's Signature _____ Date _____

Syllabus on File

Principles of Architecture and Construction Course Syllabus 2014-2015

School: Hanna High School
2615 Price Road
Brownsville Texas, 78521

Teacher: Mrs. Julieta García - Ramirez

Website: www.hannaarchitecture.weebly.com

Email: jgarcia-ramirez@bisd.us

Conference: 7th Period 1:40 pm – 2:25 pm

Room: P - 101

Telephone: (956) 698-1936

Textbook: Various texts and resources will be given upon request.

Prerequisites: Recommended for students in Grades 9-12.

Course Description: Principles of Architecture and Construction Technology provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and education goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in the trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications, problem solving and critical thinking, Information Technology Applications, systems, safety, health and environmental, leadership and teamwork, ethics and legal responsibilities, employability and career development, technical skills introduction to hand tools and reading technical drawings.

Course Objectives: TEKS: 130.42

- The student will achieve academic knowledge and skills required for a career and postsecondary education opportunities associated with the architecture and construction technology magnet program.
- The student will identify the world most common past and present architecture styles.
- The student will gain an overall knowledge of architecture and construction, designing skills, employment skills, Auto CAD skills, lettering, sketching, rendering & board drafting skills, and basic architectural terminology communication skills.
- The student will learn how to technically and manually draft and design.
- The student will formulate mathematical and physics operations related to architecture and construction.
- The student will implement measures to maintain safe and healthful working conditions in the architecture and construction field.
- The student will explore/research different careers and job descriptions associated with roles and functions within the architecture and construction technology, and demonstrate a commitment to professional and ethical behavior.
- The student will be able to identify and have hands on training on various technology software and be able to create architectural and construction projects.

Architectural Design Course Syllabus 2013-2014

School: Hanna High School
2615 Price Road
Brownsville Texas, 78521

Teacher: Mrs. Julieta García - Ramirez

Email: jgarcia-ramirez@bisd.us

Website: www.hannaarchitecture.weebly.com

Conference: 7th Period 1:40 pm – 2:25 pm

Room: P - 101

Telephone: (956) 698-1936

Textbook: Various texts and resources will be given upon request.

Prerequisites: Recommended Grades 10-12. Algebra 1, Geometry, and Principles of the Architecture and Construction Course.

Course Description: In Architectural Design, students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial and residential architectural purposes.

Course Objectives: TEKS: 130.46

- The student knows the employability characteristics of a successful professional in the modern workplace.
- The student applies key cognitive skills and academic behaviors to the requirements of architectural studies.
- The student knows the concepts and skills that form the technical knowledge of architectural design.
- The student knows the function and application of the tools, equipment, technologies, and materials used in architectural drawing.
- The student applies the concept and skills of the profession to simulated or actual work situations.
- The student applies the concepts and skills of the profession to simulated or actual work situations.
- The student begins exploration, development, and organization of ideas from the surroundings.
- The student begins expressing ideas through original architectural projects using a variety of media with appropriate skill.
- The student demonstrates and understanding of architectural history and culture as records of human achievement from ancient Egypt to the present.
- The student makes beginning informed judgments about personal architectural projects and architectural projects of others.
- The student makes informed career decisions that reflect career goals.
- The student applies communication, science, and mathematics knowledge and skills to architectural projects.
- The student knows the concept of energy.
- The student will be encouraged to participate in a Skills USA club which helps him/her compete on nationwide architecture projects. Professional in our industry partner up with Skills USA and evaluate our students work.

Advance Architecture Course Course Syllabus 2014-2015

School: Hanna High School
2615 Price Road
Brownsville Texas, 78521

Teacher: Mrs. Julieta García - Ramirez

Email: jgarcia-ramirez@bisd.us

Website: www.hannaarchitecture.weebly.com

Conference: 7th Period 1:40 pm – 2:25 pm

Room: P - 101

Telephone: (956) 698-1936

Textbook: Various texts and resources will be given upon request.

Prerequisites: Recommended Principles of the Architecture and Construction Course, and Architectural Advanced Interior Design.

Course Description: In Advanced Architectural Design, students gain advanced knowledge and skills needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Advanced Architectural Design includes the advanced knowledge of the design, design history, techniques, and tools related to production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

Course Objectives: TEKS: 130.47

- The student knows the employability characteristics of a successful worker in architectural design.
- The student relates core academic skills to the requirements of architectural drafting.
- The student knows the concepts and skills that form the technical knowledge of architectural computer-aided drafting.
- The student knows the function and application of the tools, equipment, technologies, and materials used in architectural computer-aided drafting.
- The student applies the concept and skills of the trade to simulated and actual work situations.
- The student describes the importance of teamwork, leadership, integrity, honesty, work habits, and ethics.
- The student sustains exploration, development, and organization of the ideas from their surroundings.
- The student uses advanced skills expressing ideas through original architectural projects using various media with appropriate skills.
- The student demonstrates and understands of architectural history and culture as records of human achievement by examining the connections between twentieth and twenty-first century architecture and design and Roman architecture and art.
- The student makes advanced informed judgments about personal architectural projects and architectural projects of others.
- The student exhibits employability skills that lead to job success in the architectural design industry.
- The student will be encouraged to participate in a Skills USA club which helps him/her compete on nationwide architecture projects. Professional in our industry partner up with Skills USA and evaluate our students work.

Practicum Architecture Course Course Syllabus 2014-2015

Hanna High School
2615 Price Road
Brownsville Texas, 78521

Mrs. Julieta García - Ramirez

jgarcia-ramirez@bisd.us

www.hannaarchitecture.weebly.com

7th Period 1:40 pm – 2:25 pm

P - 101

(956) 698-1936

Various texts and resources will be given upon request.

Prerequisites: Recommended for students in Grade 12. Completion of a coherent sequence in architectural design. Instruction may be delivered through laboratory training or through classroom instruction.

Course Description: Practicum in Architectural Design is an occupationally specific course designed to provide students with the knowledge and skills needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Practicum in Architectural Design includes the advanced knowledge of the design, design history, techniques, and tools related to production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Safety and career opportunities are included in addition to; work ethics and job-related study in the classroom such as communications, problem solving and critical thinking, Information Technology Applications, systems, safety, health and environmental, leadership and teamwork, ethics and legal responsibilities, employability and career development, technical skills, hand tools, leadership and teamwork, and soft skills.

Course Objectives: TEKS: 130.48

- The student knows the employability characteristic of a successful worker in a modern workplace.
- The student relates communication, mathematics, and science to the requirements of the architectural design profession.
- The student knows the function and application of the tools, equipment, technologies, and materials used in architectural design.
- The student selects and uses multimedia communication and animation technology to meet the needs of the architectural design profession.
- The student designs multimedia communication and animation products using appropriate software and techniques.
- The student produces multimedia communication and animation products using the appropriate software, materials and processes.
- The student follows appropriate codes, laws, standards, or regulations.
- The student demonstrates the ability to solve problems, think critically, and make decisions.
- The student applies communication, mathematics, and science knowledge and skills to job situations.
- The student determines employment opportunities and preparation requirements for career and education.
- The student demonstrates ethical and legal practices for careers in the architectural-related industry.
- The student will be encouraged to participate in a Skills USA club which helps him/her compete on nationwide architecture projects. Professional in our industry partner up with Skills USA and evaluate our students work.

Advisory Attendance

- TSC
- BPUB
- CDDBC

Results: Practicum Internship:

City of Brownsville, Orive Surveying, BPUB, CDDBC,
Vasquez Surveying, TSC, Gonzalez Engineeirng &
Surveying, Montemayor Engineering,

Student Enrollment

Courses Report

Extra Curriculum Report

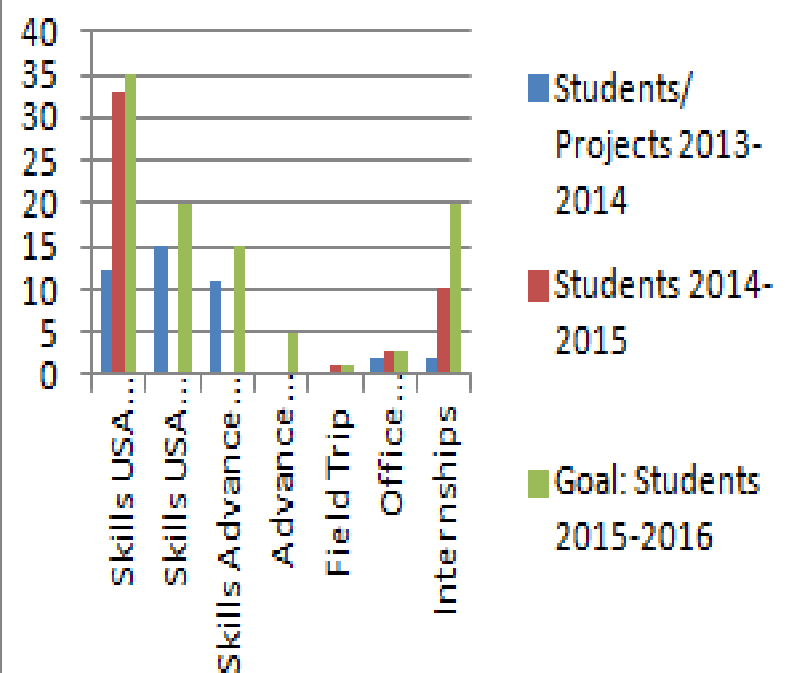
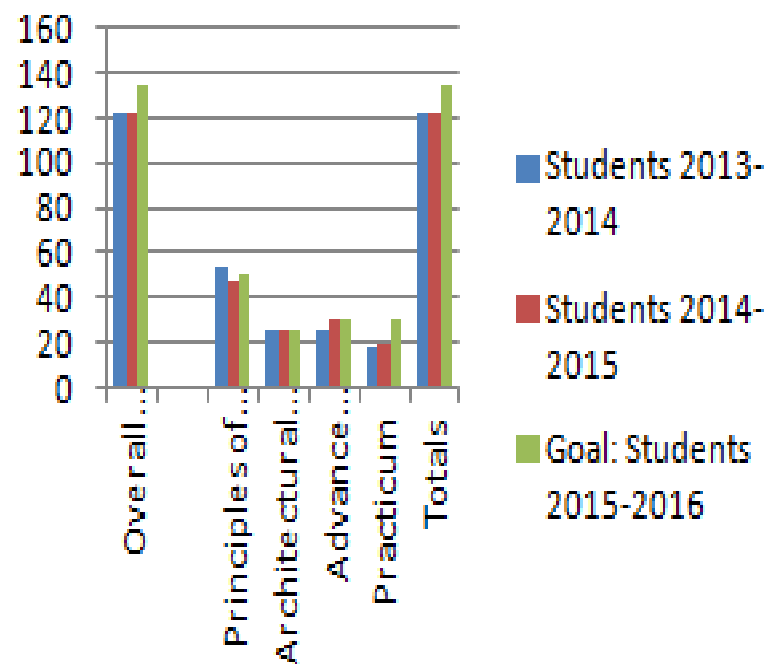


Figure 1.1

Figure 2.2



Thank you for your attention.