Centro Basico/Comunal de Santa Rosa
Global Architecture Brigades Design Competition
Centro Basico/Comunal de Santa Rosa
Global Architecture Brigades Design Competition

Texas A&M Global Architecture Brigades (2010-11)

Southern Ellis  Master of Architecture (Class of ’11)  President
Brad Bertrand  Master of Architecture (Class of ’11)  Vice President
Jimmy Chan  Master of Architecture (Class of ’11)
Luis Martinez  Master of Architecture (Class of ’12)
Steven McPherson  Urban & Regional Science (Class of ’12)
Juan Vazquez  Construction Science (Class of ’12)
Mustafa Khan  Construction Science (Class of ’11)
Scott Dossey  Construction Science (Class of ’11)
Paul Rodriguez  Environmental Design (Class of ’11)
Megan Arrington  Environmental Design (Class of ’12)
Kelsey Aschenbeck  Environmental Design (Class of ’12)
Clint Stanford  Environmental Design (Class of ’13)
Amy Rabb  Master of Science in Construction Management (Class of ’12)

Academic Advisor
Dr. Jorge Vanegas
Dean - College of Architecture, Texas A&M University

website:  www.wix.com/south09/brigades
email:  south09@gmail.com
The mission of the Centro Basico/Comunal de Santa Rosa project is to design a secondary school to accommodate 7th, 8th, and 9th grade students from Santa Rosa and thirteen surrounding communities. The facility will also adapt to become a community center/meeting space for the people of Santa Rosa.

**DESIGN GOALS**

**Flexibility** - Creating a campus that can adapt to accommodate a range of uses, serving as a facility that is more than a school, but a community gathering ground.

**Contextually Appropriate** - Utilizing passive cooling techniques, maximizing natural lighting, and embracing locally available construction materials and techniques to create a design that compliment its environment.

**Interactive Learning Environment** - Creating shaded unprogrammed spaces and maximizing views to the outdoors, allowing students to learn through the interaction with their environment.
The layout of the buildings on the site of the existing primary school arranges the new buildings on the campus around a central recreational courtyard. The classroom spaces, connected through covered breezeways, are at the southern portion of the site and face due north to utilize the prevailing northern winds of the area. A covered outdoor eating area can be found attached to the center classroom which has the ability to transition into a larger community meeting space. A covered walkway connects the library and kitchen buildings to the classroom area. The latrines are located downwind from the classroom spaces along a short walking path amongst the trees.
The building orientation and shape allows it to catch the prevailing winds coming from the north and funnel them through the building, while at the same time block the harsh southern sun.
The classroom spaces, connected through covered breezeways, face due north to utilize the prevailing northern winds of the area. A covered outdoor eating area can be found attached to the center classroom which has the ability to transition into a larger community meeting space. A covered walkway connects the library and kitchen buildings to the classroom area. The latrines are located downwind from the classroom spaces along a short walking path amongst the trees.
flexibility - the interior classroom’s walls can slide open to form a large community gathering space
The design of the buildings on the campus feature an array of locally available building materials assembled using simple connections and joints. Generic wall, roof, and window details are replicated throughout the facility to allow for easier construction.
The design of the buildings on the campus feature an array of locally available building materials assembled using simple connections and joints. Generic wall, roof, and window details are replicated throughout the facility to allow for easier construction.
The design of the buildings on the campus feature an array of locally available building materials assembled using simple connections and joints. Generic wall, roof, and window details are replicated throughout the facility to allow for easier construction.
North elevation of classroom building from courtyard

East elevation of classroom building

NOTE: the elevations of the library and kitchen facilities are not shown, they utilize the same detailing as the classroom building.
library

2.5m  5m  10m

covered walkway to kitchen

recreational courtyard

bookshelves

covered walkway to classrooms & eating area

classroom
Centro Basico/Comunal de Santa Rosa
Global Architecture Brigades Design Competition