

2005 Michael G. Meyers Design Competition

Community Bicycle Shop & Classroom

background

A group of local artists have developed a grass roots project into a community focused education program where the love of bicycles and the rewards of hard work are taught to Houston's young people. An avant-garde teaching style mixed with a unique set of teaching tools requires a customized building where students can make bikes and build self esteem. This personal crusade has outgrown the confines of the artists' garage and a new facility is desperately needed. A site located in a tightly knit historic Houston neighborhood has been donated for the new building and a fund raising campaign has begun. Your challenge is to design a new structure to house a bike shop and classroom. It should develop a distinctive aesthetic that is cognizant of place and accommodates the program's functional requirements.

project requirements

The design for the bike shop classroom structure must:

1. include at least one of the five "additional design exercises" in the final submission.
2. develop a distinctive appearance for the building while maintaining functionality.
3. include all program elements outlined below.

program

INTERIOR SPACES (Note the following area requirements are suggested, however they may be adjusted for functional considerations. Your building may be slightly larger or smaller than the sum of these areas.)

Student classroom:

500 SF area for up to 15 students and 1 instructor to gather for written lessons.

Welding / metal working tables:

600 SF area for six 4'-0" x 5'-0" tables with direct access to exterior parts storage.

Wheel truing benches:

120 SF space with workbenches and stools for 10 wheel stands.

Secure bicycle and equipment storage:

600 SF area for lockable tool storage and storage of up to 60 bicycles "in the works."

Bicycle tuning:

450 SF open space designed to accommodate 10 floor mounted bicycle tuning stands. Each stand requires a 6'-0" diameter clear floor area.

Retail sales:

1200 SF area with display cases, cashier counter, bicycles and parts for sale. This space should share the main building entrance with the rest of the shop, however it should be isolated from the metal working and secure storage areas.

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Office with window:

120 SF private workspace for the bike shop instructor with views to the exterior, the retail sales area, and at least a portion of the workshop area.

Break Room:

300 SF area adjacent to instructor's office with vending machine, counter, sink, microwave and refrigerator.

Restrooms with lavatory:

65 SF each – Men's and Women's single occupant restrooms with toilet and sink.

Lockers:

160 SF area for personal storage. This program maintains a class size of 10 to 15 students 4 days per week and will require 60 half height lockers.

Computer resource space:

200 SF area with 3 computers and a printer station.

EXTERIOR SPACES:

Covered parts storage area:

450 SF area should have direct access to the welding / metal working area through a 10'-0" x 12'-0" minimum door opening. Covered parts storage should be protected from rain and secured within the site.

Four parking spaces:

Spaces should be 8'-0" x 20'-0" minimum. One parking space should be 9'-0" x 20'-0" with a 5'-0" x 20'-0" clear space along one side to accommodate handicap accessible vehicles.

additional design exercise options

At least one of the following is required:

1. designate a two-mile long bike path on a neighborhood site plan and identify at least 4 points of interest along the route
2. develop an exterior building sign or logo for your bike shop and incorporate it into your elevations
3. design your building so that it can be transported to another site
4. make a list of as many products and materials as you can that are found in the construction of your building and briefly describe how they are used (ex: wood – flooring, siding, doors, etc)
5. design graphics for a bike shop webpage and describe what purpose the website would serve for the community

Presentation Requirements

drawings

The following **minimum** requirements should be mounted on two 24" x 36" or 30" x 42" foam core or similar rigid boards (*do not submit more than two boards*):

- 1" = 30'-0" scale **site plan** showing outdoor features, building roof(s), sidewalks, and other site improvements.
- 1/8" = 1'-0" scale **floor plan** of the building showing walls, doors, windows, countertops, plumbing fixtures, room names, and other descriptive information.
- 1/8" = 1'-0" scale **exterior building elevations** from Dowling Street and Francis Street showing roof heights, building materials, windows, and other descriptive information.
- 1/8" = 1'-0" scale **roof plan** showing how the roof slopes to internal drains, gutters, downspouts, or some other collection system.
- 1/8" or 1/4" = 1'-0" **section** of the building showing where openings are located in walls and how spaces are connected or divided.
- At least one accurate **perspective** drawing at any scale of an interior or exterior view of your project.
- Three or more **hand sketches** that document your design process.

models

A 1/8" = 1'-0" **scale model** of the project (*building only, no site model*) is required for team projects. **Models are optional for individual participants, but all are encouraged to experiment with models to help answer questions about their designs.

deadline for submissions

Entries are due by 5:00 pm on Friday, **22 April 2005** at the AIA Houston offices 3000 Richmond Avenue, Suite 500, Houston, TX 77098 [phone 713-520-0155].

awards

A reception and awards presentation will be held on Friday, **29 April 2005** at a time and location to be announced.

Design is a creative process, and this is an ideas competition. Engineering calculations are not required for mechanical, electrical, or structural systems. All participants will receive a certificate of recognition from the American Institute of Architects. There will be a balanced evaluation by jurors from architectural, academic, and other relevant fields of expertise. Awards include college scholarships totaling \$2,500, scholarships to the U of H Architectural Summer Discovery Program, and gift certificates to art supply stores, entertainment venues, and restaurants. While the quality of presentation is important, any contestant of any ability may receive an award based on the strength of a concept or inventiveness of an idea.

Affix a label on the back of all boards and models with the following:

Individual or Group Entry – Student Name(s) – School Name – Contact Number