

# 2014 Michael G. Meyers Design Competition

## #College2020MGMC

HISTORY - CULTURE - ACADEMIA.

This year, the design problem for the MGMC is to design a new academic building for Rice University.

The University has decided to expand by adding an academic building on the main campus at 6100 Main St. Houston TX 77005, at College Way Loop between Stadium Road and Alumni Drive. This unique site is in the heart of the campus and borders The Baker Institute and The Shepherd School of Music. Rice University requires the new building to tie into the surrounding context and integrate with the established campus design.

## Project Requirements

### #College2020MGMC

1. Select an area of academic study that interests you. Base your overall design and function of the building on that academic area. For example, if you are interested in space travel your building would be designed for the study of aerospace engineering.
2. Include a comprehensive, description of your building explaining the concepts behind your design. See essay requirements. Please give your building a name.
3. Develop a distinctive solution that is considerate of the established campus context as well as the urban surroundings. Your design solution should integrate and accomplish at least (2) sustainable strategies.(conserve and or generate energy, store and or reuse water, utilize passive solar and wind strategies)
4. Develop distinctive interior and exterior spaces that hi-light the relationships between the required program elements and those chosen for your area of study. Be sure to consider the interaction between the indoors and outdoors and the overall flow of people through your building. Explore the use of the building and site beyond traditional academic building functions
5. Students should explore through the process of design interesting materials, structural components and environmental strategies. Your drawings should clearly illustrate these components

Sponsored by the  
Architecture Center  
Houston Foundation  
and the American  
Institute of Architects,  
Houston Chapter



# program

## Site & Building elements

The following items should be part of your site design and site plan.

Think about University Campus Design, pedestrian circulation, and common use areas.

Think about how your site should be approached and the integration of public transportation stops into your design. Think about the design of streets, sidewalks, plazas, views and vistas; how are they landscaped and what are the elements that are part of the experience.

Rice University is committed to preserving existing trees whenever possible, especially specimen trees that are over 25" in diameter, as some of these trees are over 100 years old. Required parking is provided on surrounding campus lots. Your site should reflect some of the needs of your chosen area of study

Building: **65,000 -75,000 sqft approx.**

Site:

Bicycle Parking 40 bicycles

Green Space 5,000 sqft

*Program elements you should consider including in your green space are:*

open lawn, garden, outdoor theater, outdoor learning space

### **Building:**

LEARNING CENTERS 42,000 - 52,000 sqft

*Learning Centers should be specific to your area of study. Examples of optional program elements to include are:* CLASSROOMS, LABS, STUDIOS, STUDY-ROOMS

Typical Classroom	600 - 800 sqft.
Typical Lab	800 - 2,000 sqft
Typical Studio	2,000 - 2,500 sqft.
Typical Study Room	150 – 500 sqft

LECTURE HALL 250 SEATS 3,000 sqft

FACULTY AND STAFF OFFICES 3,000 sqft

Typical faculty office	125 - 175 sqft
Dean's office	250 - 275 sqft

PUBLIC RESTROOMS (one Men's one Women's req. per floor)

Typical Restroom 500 sqft

STORAGE ROOMS 2,000 sqft

MAINTENANCE AND MECHANICAL ROOMS (one per floor) 1,000 sqft

COMMON SPACE AND CIRCULATION 5,000 - 6,000 sqft

*(including but not limited to: elevators, stairs, lobby, hallways, & atrium)*

CAFE/TECH BAR 4,000 sqft

## Design Assignment in collaboration with Gulf Coast Green Houston -

Design an object for the green classroom of the future. Participants consider redesigning a feature of a current classroom or come up with something completely new. Potential ideas might include a desk or workstation, innovative recycling/waste bin, or new instructional device. Provide sketches and describe your object in 150 words or less. You are encouraged to experiment with models. The winning object will be displayed at the Gulf Coast Green Houston Conference.

## **Presentation Requirements**

### **essay** (should be firmly affixed to the front of one board)

Your descriptive essay should include some detail to explain your design. Please limit your essay to one 8 ½ x 11 sheet @ 12 point Arial font, approx. 500 words

Suggestions of what to include in your essay:

- Describe your sustainable strategies and how the university and community will benefit, and enjoy them.
- Describe how the existing campus and surrounding context influences the design of your building.
- Describe the faculty and student experience at your building and its surroundings
- What makes your building unique, what will make your users excited to study in your building.

### **drawings**

The following **minimum** requirements should be mounted on two 24" x 36" or 30" x 42" **foam core** (do not submit more than two boards): (Winning entries will be exhibited @ the Architecture Center Houston, therefore to facilitate display, boards **must be foam core**, and must not exceed the allowable sizes)

- 1" = 60' scale **site plan**, showing outdoor features and site improvements and the roof of the building.
- 1/8" = 1'-0" scale **floor plan** of the building showing walls, doors, windows, countertops, plumbing fixtures, room names, and other descriptive information that defines the space.
- 1/8" = 1'-0" scale **exterior building elevation(s)** showing façade, roof heights, building materials, windows, and other descriptive information.
- 1/8" or 1/4" = 1'-0" **building section** of the building showing spaces and how they are connected or divided walls and exterior wall material
- At least one accurate **perspective** drawings at any scale of an interior or exterior view of your project.
- Any **hand sketches** that document your design process.

### **model**

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**

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## **deadline for submissions**

Entries are due by 5:00 pm on Friday, **25 April 2014** at the AIA Houston offices at ArCH (ARCHITECTURE CENTER HOUSTON) **315 Capitol Street, Suite 120, Houston, Texas 77002** [phone 713-520-0155]..

## **label your entry**

Please complete and affix an official **MGMC competition label** to the back of each board and model. The label form is attached below and also available on the competition website.

## **awards**

MGMC reception and awards presentation will be held at 6:00pm on Friday, **02 May 2014** at ArCH (ARCHITECTURE CENTER HOUSTON) **315 Capitol Street, Suite 120, Houston, Texas 77002** [phone 713-520-0155].

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 and scholarships to the UofH Architectural Summer Discovery Program. 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.

## Sustainable design strategies

### Site



Preserve green space or return developed land to more natural

Be aware of drainage, minimize potential erosion

Be smart about transportation

Be aware of extent of impermeable surfaces, eg; roads and paving

Be aware of the affect of your site on adjacent properties

### Water



Be smart about how much, and how you use and or reuse water.

Think about ways to conserve water.

Use native and adaptive plants, and minimize use of potable water.

Adopt water technologies that reduce amount of water used.

### Energy



Be smart about how much, and what type of energy is used.

Think about ways to conserve energy.

### Materials



Consider the impact of products used in the construction of the Building;

this would include materials with recycled content, salvaged, rapidly renewable and local materials.

### Indoor Environment



We spend the majority of our time indoors and we should optimize the quality of that environment.

Think about ways to bring lots of daylight into the building

Think about the types of materials you use inside the building and how they could affect the health of the occupants