



AIA
New Hampshire



Social and Media Center **American Institute of Architects New Hampshire Chapter**

2018 High School Design Competition Program



Educational Objectives

- To increase awareness of the relationships between space, human scale and function.
- To gain experience in recognizing the various challenges in planning and designing indoor and outdoor spaces for specific uses.
- To exercise your analytical abilities and creativity in solving the problems you have defined.
- To practice communicating your planning and design ideas utilizing scale drawings and models.

Participation Requirements

Every participant must be a current high school student in the state of New Hampshire or any high school student who is a resident of New Hampshire. Students may work individually or in teams. Teams may not consist of more than three students.

Registration

Teachers must register participating students by Friday January 19, 2018 with the attached form.

Introduction

Technology has a significant impact on many aspects of everyday life. The way we communicate, work, educate, share information and even interact on a daily basis is continually changing and shaped by access to digital media of all types.

Sustainable Living and Innovation Center

This year's AIANH Design Competition will be to design a Social and Media Center. This facility will act as an information center for digital media, while also offering spaces for the local community to gather, meet, socialize and perform. The multi-functional spaces of this facility will provide places for structured events for all ages as well as informal gathering.

Site Plan available for download from:

<http://www.aianh.org/education/outreach/high-school-design> PDF, DWG

Sustainable and High Performance Design

A fundamental goal of this building is to embrace sustainability. In order to reduce the overall impact of the building in the environment, the pavilion will integrate innovative green building strategies such as:

- increase energy efficiency through the use of natural day lighting and smart shading systems
- water efficiency through the use of low flow fixture
- use of renewable energy to help achieve Net Zero energy consumption
- materials which will reduce consumption, pollution and waste
- materials that will be durable and do not require special maintenance

Sustainability Resources:

- NH State Energy Code info <http://www.puc.state.nh.us/EnergyCodes/energypg.htm>
- LEED – <http://www.usgbc.org>
- Green Globes – <http://www.greenglobes.com/>
- Whole Building Design Guide – <http://www.wbdg.org/design/sustainable.php>
- The Living Principles – <http://www.livingprinciples.org/>
- Sustainable Design forum – <http://www.sustainabledesignforum.com/>
- Energy Star – <http://www.energystar.gov>
- Northeast Sustainable Energy Association – www.nesea.org

Building Area Needs: The Social and Media Center will be a one-story structure. There is no pre-determined height, however the height must respect the surrounding environment as well as complement the buildings' function and design.

Interior Spaces: (Actual space provided may vary by up to 10% of the target square footage listed)

- Entrance and Hub (350 sq. ft.): This space serves as a main entrance into the hub of the building and must be recognizable from the exterior with a clear purpose. An interior open "hub" will provide access to the other main program spaces listed below. The main entrance must be easily visible from the information desk and must provide space for a display wall that will feature information about current and upcoming events.



- Information/staff desk (125 sq. ft.): Space for two staff members to welcome visitors and direct them to appropriate areas of the building. The information desk must have direct visual access to the Entrance, Internet Café, Stage and Media/Study Area.
- Staff Offices (450 sq. ft.): Main director office and open workstations for a least two support staff. Include a separate IT room.
- Internet Café and Indoor Seating (1,400 sq.ft.): Provide seating for 20-30 people at tables and chairs. The seating area should be adjacent to the Food Vendor as well as the Stage. Assume wifi will be provided throughout and provide a variety of seating styles to suit.
- Food Vendor Area (250 sq.ft.): This space will be operated by an independent vendor. No cooking will be done on site. Include small food prep counter with sink, refrigerator/freezer and cash register that can be secured when not open for business. A self-serve cooler for chilled sandwiches and beverages should be provided from the customer side. Provide an area for collection of recyclables and trash and access to a dedicated door for deliveries.
- Stage area (800 sq.ft.): 20'x30' multi-purpose stage area for small performances of musical and small-scale theatrical demonstrations. The stage must have the ability to open to the exterior seating area so that performances are viewable from inside and/or outside. Include adjacent performer “green” room and dedicated storage area.
- Media and Study Area (600 sq. ft.): Space for media display racks/shelves for loan and on site use. Must be adjacent to the café and be clearly visible from the Information Desk. Provide an adjacent study area with opportunities for quiet reading/study for approximately 20 people at tables and/or study desks. Include the following media displays at a minimum:
 - 120 linear ft. for printed media (books, magazines, newspapers)
 - 80 linear ft. for books and novels
 - 50 linear ft. for DVD/CD
- Computer Lab (120 sq. ft.) with space for at 6-8 computer stations for public use.
- Large Meeting Room (480 sq. ft.) with overhead projector and screen
- Small Meeting Room (320 sq. ft.) with overhead projector and screen
- Restrooms (200 sq. ft.): Accessible Men’s and Women’s restrooms. One restroom for each gender near the Cafe. Include two Water Closets and two lavatories in each restroom.
- Utility Closet (100 sq. ft.): Office supplies, janitorial equipment.
- Public Circulation: Interior circulation, corridors.
- Mechanical spaces: Electrical (10'x12') and Mechanical/Sprinkler (10'x12') equipment rooms

Exterior Spaces:

- Outdoor Seating: This exterior space is intended to provide a natural amphitheater with seating for up to 80 people. Assume 30” linear per person for design of the amphitheater. It can be used as an independent outdoor space, and will also provide opportunities for viewing the stage when open to the outside.
- Outdoor lawn: This exterior space is intended to be used as an informal gathering area surrounding the amphitheater. Possible uses include local farmer’s market and other informal gatherings.
- Public transportation: Include the design of a covered bus stop pavilion with seating area outside the main entrance to the Social and Media Center.
- Provide 2 parking spaces outside the facility main entrance for accessibility. Assume that all other parking will be off site or on street.
- Provide 1 parking space equipped with an EV (electric vehicle) charging station
- Provide bicycle storage racks

Accessibility

All public buildings must be fully accessible. This includes accessible parking spaces with an accessible route from the parking to the building entrances, an accessible route to all public spaces and staff work spaces, and public restrooms. Exterior spaces should also be accessible.

Accessibility Resources

- Americans with Disabilities Act http://www.ada.gov/2010ADAstandards_index.htm
- NH Governor's Commission on Disability <http://www.nh.gov/disability/>
- http://publicecodes.cyberregs.com/icod/ibc/2009/icod_ibc_2009_11_sec001.htm

Submission Requirements

- Design Boards should be 20" x 30" on ¼ inch foam core (required) and include the following: (see sample presentation layouts, attached)
 - Design sketches, design process and inspiration information
 - Site plan
 - Floor plan
 - Exterior and interior elevations
 - Building section(s)
 - Exterior and/or interior perspective(s)
- 1/16" Scale model - Model size limit is 20"x30" max. (Please no wooden bases; foam core preferred)
- Brief project narrative – Compose a thoughtful and concise text summary (approximately 150 words) describing your building design. This can include but not limited to:
 - The main ideas and goals behind your design
 - How the building is organized
 - How you envision people occupying the building

Timeline (specific dates to follow)

April 2018 Entries are due (at a location to be determined) by Friday, April 13, 2018, 5 pm.

Winners of the AIANH High School Design Competition will be invited to an AIANH event at which projects will be on display and awards will be presented. We are working on an event with the Keene State College Architecture Department at the TDS Building. The date will be confirmed and we will let you know as soon as possible.

Cash awards will be presented to the top two winners in each category below at the discretion of the jury:

- **Best Design, Overall Superiority, in all aspects of Design Solution, Model and Graphic Presentation**
- **Best Model describing Design Solution**
- **Best Graphic presentation describing Design Solution**
- **At the discretion of the judges, certificates will be presented to other submissions that are noteworthy.**



The AIANH High School Design Competition is a program of the New Hampshire Chapter of the American Institute of Architects.



**American Institute of Architects New Hampshire Chapter
2018 High School Design Competition Program**

Registration Form

Use this form to register students for the competition.

Students may work individually or in teams. Teams may not consist of more than three students.

Please registration each individual working alone and each team. If registering a team, please include each team member's name, email, home address, and phone number. (We need emails to inform students of the results and the postal addresses to mail awards if not retrieved at the Awards Ceremony.)

Please send this form by email *or an email with all the required information* to:

Bonnie Kastel, Executive Director, bkastel@aianh.org

Receipt will be confirmed, so if you don't hear from us please check that your email was received.

Teacher/Instructor Name:

Teacher/Instructor Email:

Teacher/Instructor Telephone:

School:

School Address:

Please list name, address, email, and phone number of each student. Designate teams if appropriate.

Registrations should be received by the AIANH office by Friday January 19, 2018.

CRITIQUES: After the AIA New Hampshire office has received the participating High School/Academy's registrations, an AIANH architect will be available to critique the students' work. The earlier you contact us about arranging this, the more likely we will be able to come to your classroom for critiques. Please make arrangements through the AIANH office.