



Home Builders & Remodelers Association of Central Connecticut, Inc.

2021 STUDENT HOME DESIGN CONTEST Presentation Drawings of a Residence and Design Scale Model

For more than 60 years the HBRA has sponsored this exciting and unique educational experience, which provides student scholarships for continued education in the construction field.



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2021 STUDENT HOME DESIGN CONTEST RULES AND REGULATIONS

ENTRY FORMS: Each student must complete a registration form found online at www.cthideshow.com on or before February 5, 2021. Your instructor will receive an email to confirm your participation once registered.

WHO IS ELIGIBLE: Entries may be submitted by any student in grades 9th, 10th, 11th or 12th enrolled in design or drafting courses in public, parochial or private schools in the state of Connecticut.

WHAT SHOULD BE ENTERED: Presentation drawings and a model of a single-family residence started and completed in a single school year under the supervision of a technology education instructor that meets the required criteria. Drawings and model at 1/4"=1'-0" scale.

JUDGING: Official judging will be done by a panel of members of the Home Builders & Remodelers of Central Connecticut, Inc. and their associates. *In all cases, the decision of the judges will be final. Non-adherence to rules and regulations will result in point deduction and/or disqualification.*

Entries will be judged upon the following:

- Meeting design requirements
- Originality of ideas in plan and elevations
- Logical use of materials on construction of model
- Conformance with principles of good and sensible architectural design

- Quality of model presentation and draftsmanship
- Accuracy of construction details/wall section

ANNOUNCEMENT OF AWARDS: Award winners will be announced on May 6, 2021 the same day they are judged.

DELIVERY OF ENTRIES: All entries are to be delivered to a location TBD on May 6, 2021. More info to follow as we get closer.

DESIGN CRITERIA:

Design a single-family home with three (3) bedrooms not to exceed 2,000 sq.ft. Floor space (i.e. finished living area) measured to the outside face of all perimeter walls.

- The residence may be with or without basement.
- The residence must have a garage. The garage can be in the basement, attached or freestanding. The garage must be enclosed; Carports do not count as a garage.
- Please note: Garages, open porches, decks, unfinished incidental, storage, greenhouses, seasonal solar spaces, unfinished basements & attic areas will not be counted as finished living area.
- Two story spaces shall be counted as one area at the floor level. Example: open foyer.
- The site is a residential building lot with 100' of frontage and 140' of depth (site may incorporate varying topography and characteristics for additional points).

MANDATORY ENTRY REQUIREMENTS:

Entries will be rejected unless they meet the following criteria:

DRAWING

- Drawing sheet size shall be 24" wide x 30" high in portrait format. Mounted on heavy card-board or illustration board. Black ink/pencil on white paper.
- Only 1 sheet allowed for drawings. Multiple sheets are not permitted.
- Essentially flat, raised letter or other three-dimensional surfaces are not permitted.

MODEL

- The model is to be constructed of suitable material of the student's choice on a rigid base (1/2" plywood or equivalent) 24" wide x 30" high in portrait format.
- Full-dimensional scale model of the house design at 1/4"=1'-0" scale.
- Student to include a 3 1/4" wide x 1 1/4" high label for the left front corner of model: School Name, Student Name, Teacher Name

THE JUDGES WILL SCORE ON THE FOLLOWING:

General Requirements

- Drawings must include title block and must include teacher's signature.
- Plot plan in 1" = 20' scale, showing all exterior building dimensions and all setbacks from lot lines. Assume 35' front & rear building lines with 10' side yard. Show North arrow on the plot plan.
- A typical wall section noting materials to be used including insulation, roof and wall construction.
- A floor plan in 1/4"=1'-0" scale including square footage, room sizes (with dimensions) & room titles.

- The entries should include **three (3)** NAHB's Green Home Building Guideline concepts & the reason utilized on the enclosed form provided by Home Builders & Remodelers Association of Central CT. For NAHB's guidelines go to: www.nahbgreen.org/Guidelines

Drawing & Design

- Excellence in Floor Plan Design – Creative designs with overall function and efficiency
- Excellence in Exterior Design- A front elevation drawing of the building, additional details, plans, or elevations to explain building design.
- Sheet Organization – clarity, font sizes, and board layout

Model Construction & Accuracy

- Quality of Model Construction
- Built According to Plan and to Scale
- Site Design

Optional Design Concepts (Not required, but additional):

Accessibility: Students may incorporate 3 accessibility features as described in the Dept. of Justice, ADA Standards for Accessible Design. For ADA Standards for Accessible Design go to: www.ada.gov Click **ADA Design Standards**.

Energy Efficiency: Students may incorporate energy efficiency features in the design of the home (heating/cooling, windows, doors, etc.). Students should provide specific details in their wall section drawings and may also include a listing of Energy Star products and energy efficient feature components. They must describe each component and its application. For Energy Star Information go to: www.energystar.gov Click **New Homes**.

WHAT YOU CAN WIN

Sponsorship Awards:

Santini Homes Award: \$500 to the student and \$500 to the school program for the model that exhibits sophisticated design intent & execution, innovative problem solving, attention to detail & quality

HBRA Foundation Awards: for students who want to pursue careers in Architecture, Construction Management, Construction Technology, Structural Engineering, Civil Engineering

1st PLACE: \$1,000 Cash Prize will be awarded to the winner and a \$1,500 scholarship shall be presented upon evidence of matriculation in one of the programs listed above.

2ND PLACE: \$600 Cash Prize and a \$750 scholarship with the same criteria as above.

3rd PLACE: \$300 Cash Prize

4th PLACE: \$100 Cash Prize

Scholarships shall be presented upon graduation from high school and is to be used within two (2) years of that time.

The school of the student winning 1st place shall receive a plaque on which will be designated the name of the school, the teacher and the student. **Additional awards** may be given for Areas of Excellence: **Architectural; Green Building; Energy Efficiency; Accessibility; Structural Detail; Thinking Outside the Box; Unique Model Presentation; Working From Home Solution; Best First Time Entry for a School.**

2021 STUDENT HOME DESIGN CONTEST

REGISTRATION FORM

(Deadline February 5, 2021)

Thank you for your interest in this year's Student Home Design Awards Program. We encourage each student to register by February 5, 2021, using this form and return by fax, mail or email to:



Home Builders & Remodelers Association of Central Connecticut, Inc

2189 Silas Deane Highway, Rocky Hill, Connecticut 06067

Tel: (860) 563-4212 / Fax: (860) 563-3709

Email: sheila@hbracentralct.com

Contact: Sheila Leach

Please print clearly and complete the form below:

Student's Name: _____

Home Address: _____

City/Town: _____ Zip: _____

Home Ph. #: () _____ - _____ Email: _____

School: _____ Grade _____

School Phone Number: () _____ - _____

Instructor's Name: _____

Instructor's Email: _____

Principal's Name: _____

Do you plan to continue formal training and education beyond high school level? Yes _____ No _____

Choice of post high school training institution: _____



2021 STUDENT HOME DESIGN CONTEST

SCHEDULE CHECK LIST

Students and Instructors

- Pre-register by February 5, 2021
- Confirm that you are participating by March 5, 2021
- Bring your model in on May 6, 2021 to a place TBD by 9:30am for Participant Activity, Judging, Lunch and Awards. Event will end by 1:00pm.

Instructors and students, you will receive Student Home Design Contest details and reminders. If you have any questions please contact me at 860-563-4212 or email sheila@hbracentralct.com

Thank you,

Sheila Leach
HBRA of Central Connecticut

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2021 STUDENT HOME DESIGN CONTEST

DESIGN CRITERIA CHECK LIST

Students

- Presentation drawing on 24" wide x 30" high in portrait format includes:
 - Floor Plan(s) at 1/4"=1'-0" scale with dimensions, room sizes.
 - Plot Plan at 1"=20' with setbacks, dimensions & north arrow.
 - Wall Section showing wall, roof, insulation accurately.
 - Teacher's Signature, square footage, drawing titles (readable font sizes).
 - NAHB Green Home Building concepts listed & described.

- Full dimensional scale model on 24" wide x 30" high in portrait format includes:
 - Accurate house design (matching floor plans) at 1/4"=1'-0" scale.
 - Constructed of suitable materials, textures and colors to depict design.
 - Site design represents topography, walks, driveway, etc. accurately.
 - Label in left front corner: School Name, Student Name, Teacher Name.

If you have any questions please contact me at 860-563-4212 or email sheila@hbracentralct.com

Thank you,

Sheila Leach
HBRA of Central Connecticut

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Judging Criteria Explanations

Meets Design Criteria: The design provides for the size and functional criteria as specified in the “DESIGN CRITERIA” section of the contest rules.

Excellence in Floor Plan Design: The design submitted displays practical, livable, and comfortable spaces. The design should feature a well thought out circulation (traffic flow) pattern. Room adjacencies and separations are considered in this category.

Excellence in Exterior Design: The design submitted displays well thought out rooflines, window/door arrangements, proportions, and material selections.

Accuracy of Construction Details: The required wall section submitted displays knowledge of materials and construction methods and assemblies.

Presentation Categories

Sheet Organization: The drawings submitted are arranged in a sensible and easy to read format. Adequate labeling is provided.

Quality of Drawing (formerly Use of Point Sizes and Fonts): The types of drawings (perspectives and/or color renderings for instance), level of detail, and degree of difficulty of the drawings presented.

Model Built According to Plan: The model submitted matches the plan submitted.

Quality of Model Construction: The level of workmanship of the model submitted, as well as the choice of materials, textures and colors.

Below is a copy of the Judges scoring sheet. In all cases, the decision of the judges will be final. Non-adherence to rules and regulations will result in point deduction and/or disqualification.

Mandatory Requirements	General Requirements: Max 2 points 0=no 1= some 2= Yes					Drawing & Design			Model Construction & Accuracy			TOTAL POINTS	SPECIAL RECOGNITION					
Mandatory for Entry, Disqualification if not met	Instructor Signature	Plot Plan with Setbacks, Dimensions & North Arrow	Insulation, Wall, Roof Sections & Accuracy	Square Footage, Adequate Dimensions & Titles	Meets Design Criteria & NAHB Green Building	Excellence in Plan Design (10 points)	Excellence in Exterior Design (5 points)	Sheet Organization & Adequate Font Sizes (5 points)	Quality of Model Construction (10 points)	Built According to Plan and to Scale (5 points)	Site Design (5 Points)	50 Max Points	Rookie award	BOX (Thinking Outside the Box)	CAPS(Accessibility Solutions)	CGP (Green Building)	Creative Site Plan	Excellence in Architectural Design



NAHB MODEL GREEN BUILDING GUIDELINES UTILIZED - 3 CONCEPTS REQUIRED



- 1. _____

- 2. _____

- 3. _____

OPTIONAL DESIGN CONCEPT (Not Required): ACCESSIBILITY DESIGN OPTIONS - MAY INCORPORATE 3 FEATURES

- 1. _____

- 2. _____

- 3. _____

OPTIONAL DESIGN CONCEPT (Not Required): ENERGY STAR/EFFICIENCY FEATURES INCORPORATED

- 1. _____
- 2. _____