

Architectural Drafting

TEAM EVENT – 3 people maximum

Contestants will use their drafting skills to solve an Architectural problem. The problem includes a written test, a hand sketch, a computer-generated problem and a problem that may be solved using EITHER board drafting or CAD. The contest tests the contestants' problem solving abilities, not simply their CAD skills.

Design Problem: A "Green" Home- 1004 Maple Street

Owners' Profile:

- Young couple (ages 30, 32)
- One car
- Enjoy music, cooking, and outdoor activities

Owners' Program:

- Approximately 800 square feet on one level plus a single car garage
- Living room/eating area
- Kitchen
- (2) Sleeping areas w/closets
- Bathroom
- Storage where appropriate

Interview Notes:

- The owners plan to use the home as a primary residence.
- The site is confined within an urban area.
- The owners want a low maintenance, environmentally responsible home.
- The building materials, layout, interior finishes and systems proposed must have a low environmental impact.

Property:

- Property is located in Northwestern Wisconsin, zoned "Residential"
- Setbacks: Front- 25' /Side- 5' /Rear- 15'
- The site will connect to city utilities along Maple Street.
- The site development does not require a DNR impact statement, but a DNR official will be visiting the site during construction.

Survey Plan:

- Site is not to scale (see attached)

Utilities:

- Sewage, Water and Electricity - City service, connect along Maple Street
- Gas and Cable connections- per design

Requirements:

- Required Drawings drawn and labeled to the appropriate architectural or civil scale:
 - Site Plan
 - Floor Plan
 - Elevations (Front and 1 Side)
 - Building Section
 - Schedules: Room Finishes, Door, Window, and Appliances

- Sustainable Design Details and Research
- Preliminary Budget
- Statement of Verification completed and signed by supervisor to be submitted prior to the team's presentation.

Additional Requirements:

Team:

- Maximum of three members

Time:

- Maximum of 90 total hours per team. (Example: For a team of three members, thirty hours per member= 90 hours total)
- This does not include time for presentation preparation.
- Note: Each team should review their drawings for compliance with the project's requirements

Procedure:

- Each team will complete the design within the specified time period. The team members are not to receive any outside assistance i.e., architect, engineer, etc.
- References such as Architectural Graphic Standards, Sweets catalogs, etc. may be used as well as the following suggested websites:
 - <http://www.greenbuildingpages.com/>
 - refer to introduction to sustainable design and the sustainable design checklist
 - <http://www.usgbc.org/>
 - refer to LEED for homes, and "16 ways to green your home" document
 - <http://www.wgba.org/>
 - <http://www.naturalbuilthome.com/>
- The instructor will sign and provide the Statement of Verification that the team has complied with the contest regulations.
- On February 26, 2010, the team will present their design to a panel at UW-Stout.
- Drawings are to be mounted on boards.
- Each team will have a 20 minute time period. Ten minutes of this period will be for their presentation. The remaining time will be for set-up, questions, and take-down.
- The university will provide a projector for PowerPoint presentations.
- The team must provide a laptop computer with MS PowerPoint software. If the laptop is not compatible, the team should have a contingency plan for their presentation.
- The projector will have a cable for connection to the laptop computer. Note: A team may bring a projector and laptop, but will be responsible for set-up and take-down.

Evaluation:

- Design solution- Utilizing principles of good design to satisfy the client's program.
- Drawings- Utilizing accepted architectural graphics and dimensioning.
- Providing the required drawings.
- Presentation- Providing an informative oral and visual, professional presentation with all references clearly cited.

Conclusion:

- Direct inquiries or clarifications to: Ms. Glendali Rodriguez, AIA, NCARB
Assistant Professor, Department of Construction

242 Jarvis Technology Wing
University of Wisconsin-Stout
Menomonie, WI 54571
Phone: 715-232-1522 Email: rodriguezg@uwstout.edu

- Any clarifications will be emailed to all the teams.
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STATEMENT OF VERIFICATION

This form must be completed and submitted prior to the team's presentation.

School: _____ Team Members: _____

Address: _____

Supervisor: _____

As supervisor for this team in the SKILLSUSA competition, I verify that the team has complied with the competition regulations.

Date: _____ Signature: _____

Proposed Site:

