

# Comprehensive Architectural Design

Arch 553, Fall 2012

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## Project Brief

## Pitkin Nursery Learning Center

### Syllabus

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### Project Brief

### Schedule & Requirements

### Resources

### Field Trips

### NAAB Learning Outcomes

### 553 Home

### Armpriest Home Architecture Home

### Introduction

This studio is sponsored by the Idaho Forest Products Commission (**IFPC**), and centers around a design competition. In addition, IFPC will provide guest speakers, field trips, and educational materials. The goal of this sponsorship is to explore design opportunities using Idaho species (whether solid wood or manufactured wood products).

This semester we will be designing a new facility for the Center for Forest Nursery and Seedling Research located at the Pitkin Nursery just east of Moscow. The College of Natural Resources is currently raising funds for the project and we will use their preliminary ideas as a point of departure for our work this semester.

### Program

The College of Natural Resources wants a new "world class" building for its world class forest nursery and seedling research facility. The idea is to provide an energy efficient building that

*"will proudly feature Idaho forest products to serve as a real-world example and laboratory demonstrating value-added building with wood."*  
(CNR, <http://www.uidaho.edu/inspire/ways/academics/cnr/college-priorities/pitkin-nursery-project>)

The building, as currently envisioned, will include:

- Classroom
- Offices
- Kitchen
- Sales room
- Seed Room
- Flex-space for meetings & gathering
- Outdoor gathering

In addition, we will explore additional functions that could include an Idaho forest resources and products exhibit/learning space and/or other functions appropriate to the center.

### Idaho Forest Products

One of the focuses of the studio is to explore the creative and innovative use of Idaho forest products. Art Troutner, inventor of the Trus Joist, designer of the Kibbie Dome, and provider of one of our UI architecture scholarship funds, refers to this design endeavor as "poetic engineering". We will investigate the use of the material from the smallest detail to expressed structural applications.

We will take a broad view. Looking at historic influences, what currently exists, and what might exist in the future. This includes sawn lumber, boards and timbers grown in Idaho from Idaho natives. It also includes manufactured wood products that are currently produced in Idaho (glulams), parts of which are produced in Idaho (i.e. OSB or plywood), or were invented in Idaho or by Idaho based companies (Trus Joist). In addition, we will explore innovative new products that could be manufactured in Idaho in the future.

## About the Competition

The *Best Use of Idaho Wood Architectural Design Awards* is a partnership between the Idaho Forest Products Commission, American Institute of Architects Idaho Chapter and the University of Idaho College of Art and Architecture. The objective of the partnership is to encourage, recognize and support the creative and innovative use of Idaho wood in architectural design.

Goals of the partnership include:

- ◆ To provide hands-on opportunities for Idaho architects and University of Idaho architecture students to learn about Idaho forests, sustainable forest management, wood products and manufacturing.
- ◆ To foster learning experiences about the energy efficiency and the environmental and structural benefits of wood.
- ◆ To establish annual awards events that recognize excellence in architectural design using Idaho wood to both professional Idaho architects and U of I architect students.

## Comprehensive Design

The goals of the comprehensive design studio, as outlined in the syllabus, will guide the process and direct the project outcomes.

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## Presentation Requirements IFPC Competition

### Syllabus

The primary focus of the studio is on the IFPC Competition Project. There are two aspects of the final: the competition entries, and the comprehensive design presentation. The competition concludes with judging and the banquet Monday, November 12, and the Comprehensive Design Presentation is the week of December 3 - 7.

### Warm-up

### Project Brief

#### Timeline

### Schedule & Requirements

#### Shared Work- November 5

### Resources

Site and program analysis boards and the competition poster will be mounted on foam core for display in the Gallery starting Monday, November 5. A banner that says Coming November 12 (or something similar) can be used.

### Field Trips

#### Install Show - Sunday, November 11 - NOON

### NAAB Learning Outcomes

Mounted boards installed.  
PDF s of presentations to Diane

#### Awards Luncheon - Monday, November 12 - 11:15

### 553 Home

Professional attire. Be well rested and prepared for conversation and discussion about work.

#### Competition Entries: Advanced Schematic Design

### Armpriest Home Architecture Home

The work will be presented on 2 boards mounted on foam core and displayed in the Reflections Gallery.

The schematic design proposal is a concise and compelling proposal that describes the underlying concept and how it is being developed in terms of organization, form, space and character.

Keep in mind that the proposal must demonstrate how it meets the client needs as described in the project brief:

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#### Notes on Presentation

##### Drawing Scale

The scales listed below may be slightly modified if required to achieve a clear overall presentation. If the design of the presentation requires a slightly larger or smaller scale, use a graphic scale (and people if appropriate) with the drawing so there is no question about scale.

about scale.

## Use of Images

If an image of a material, or material application, is not your original work, a citation must be included.

## Presentation

<b>Design Concept</b>	Short statement of design goal Essential design strategies Concept/parti diagram (address building/site) Building/Site Program
<b>Illustration of approach to use of wood products and related design elements</b>	Construction section perspective, exploded isometric or other descriptive drawing that includes illustrations of the ways in which materials are used in the building, and design strategies for highlighting the materials.
<b>Site Development</b> 1/16" = 1'-0"	Site plan or digital model that includes proposed building/site, existing buildings and landscape elements.
<b>Building Plan</b> 3/16" = 1'-0"	The building plan should also include outside space that is essential to the building function - entries, adjacent decks, patios, walkways.
<b>Building Sections</b> 3/16" = 1'-0"	Minimum of one construction including at least 10 feet of the site adjacent to the section cut. (This could be used for other purposes as well)
<b>Building Elevations</b> 3/16" = 1'-0"	All key elevations, including building & site elements. These could be illustrated in a rendering from a digital building model.
<b>Details</b>	This might include isometric views of elements such as connections of interior or exterior materials: structure, exterior enclosure, interior finishes, etc.,
<b>Key Features</b>	Be sure to include features key to illustrating your design concept (water, plantings, particular design elements, etc.). These could be additional images, or included in others.
<b>Perspective Images</b>	One interior and one exterior perspective drawn from eye level. The purpose of this drawing is to show people using the space, and should evoke the character and atmosphere of the of the space. Theses could be combined with other drawings identified above.